DOCUMENT RESUME

ED 036 095 EF 003 854

TITLE	DESIGN DEVELOPMENT PLANS FOR THE COLLEGE OF EDUCATION AND THE BEHAVIORAL SCIENCE FACILITY. EUGENE, OREGON. PHASE I.
INSTITUTION	LUTES AND AMUNDSON, AIA, ARCHITECTS AND COMMUNITY PLANNERS, SPRINGFIELD, ORE.
SPONS AGENCY	OREGON STATE BOARD OF HIGHER EDUCATION, SALEM.
PUB DATE	AUG 69
NOTE	60P.
AVAILABLE FROM	LUTES AND AMUNDSON, ARCHITECTS, 200 SOUTH MILL STREET, SPRINGFIELD, OREGON
EDRS PRICE	EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS.
DESCRIPTORS	ARCHITECTURAL CHARACTER, *BEHAVIORAL SCIENCES, BUILDING PLANS, *CAMPUS PLANNING, CONSTRUCTION (PROCESS), *EDUCATIONAL FACILITIES, FACILITY REQUIREMENTS, MECHANICAL EQUIPMENT, *SCHOOL DESIGN, SITE ANALYSIS, SPECIFICATIONS, *UNIVERSITIES

ABSTRACT

THE DEVELOPMENT CONCEPT ADOPTED BY THE UNIVERSITY OF OREGON IS DESCRIBED, AND ITS CONTINUATION INTO THE DESIGN DEVELOPMENT PHASE OF THE ARCHITECTURAL STUDY IS PRESENTED. DETAILED ARCHITECTURAL PLANS ILLUSTRATE THE ANTICIPATED UTILIZATION OF SPACE AND THE CHARACTER OF THE BUILDING COMPLEX. OUTLINE SPECIFICATIONS FOR BUILDING CONSTRUCTION AND MECHANICAL AND ELECTRICAL SERVICES ARE INCLUDED. DISCUSSIONS OF THE SITE, THE PROGRAM, AND THE DESIGN DEVELOPMENT CRITERIA ARE ILLUSTRATED WITH SKETCHES AND PHOTOGRAPHS. (TC)

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DESIGN DEVELOPMENT PLANS

PHASE ONE

THE COLLEGE OF EDUCATION

THE BEHAVIORAL SCIENCES

THE UNIVERSITY OF OREGON

EF 003 854

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DESIGN DEVELOPMENT PLANS

for the

COLLEGE OF EDUCATION

and the

BEHAVORIAL SCIENCE FACILITY

Eugene, Oregon

Prepared for the

Oregon State Board of Higher Education

By

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August 1969

ACKNOWLEDGEMENTS

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FOREWARD

FOREWORD

Projects of this magnitude require an infinite number of decisions; some of major -- many of minor importance. This report illustrates the results of a major decision and subsequent commitment by the University of Oregon, the State Board of Higher Education and us, the Architects to create a new and meaningful environment for this Quadrant of the University. This decision was based on a series of development plans which explored the alternative concepts by which this area could be developed. (Alternative Development Concepts for the Southwest Quadrant, University of Oregon, November, 1968).

The following report reviews the adopted development concept and presents its continuation into the Design Development Phase of the architectural study. Detailed architectural plans illustrate the anticipated utilization of space and the character of the building complex. Outline specifications for building construction, mechanical and electrical service are included. These plans form the basis for Contract Documents for construction which will be translated into structure, finish and environmental support systems of an actual building.

The two major academic users who will occupy this complex, the College of Education and the Behavorial Science Group have participated in the development of these plans with great spirit and understanding of the ultimate goal to create a University family in place as well as people. The participation of these users has contributed much to the continuity of the philosophy of the project as well as its utilization and functionality to the utmost.

The engineering expertise of mechanical, electrical, structural and acoustical design team members has been integrated into these plans to assure the accomplishment of a satisfactory physical as well as aesthetic environment.

LUTES & AMUNDSON, A.I.A.

John M. Amundson

John M. Amundson, A.I.A.
August 1969

REVIEW OF CONCEPT STUDIES

REVIEW OF CONCEPT STUDIES

The imminent expansion of two major academic centers; The College of Education and the Behavorial Science Facility provided the catalyst for a study of alternative development concepts which might be utilized for the area defined as the Southwest Quadrant of the University of Oregon. These two disciplines had been programmed in two phases; the first containing approximately 187,000 square feet, and the second, approximately 253,000 additional square feet. The preliminary charge of the study was established as the site planning and development phasing of these programmed facilities on the designated site to obtain efficient and harmonious long term utilization.

In addition to this, the study program provided for the preparation and analysis of a series of alternative building concepts for the future development of the designated site. This study explored the basic potentialities of the site and the alternative building configurations which it can accommodate in light of the specific demands of the programmed functions and their potential expansion.

The Concept Report explored a range of alternative strategies which might be utilized for the development of this area rather than establishing a single design solution. These alternatives ranged from individual buildings with structural and physical independence through inter-connected building complexes with varying degrees of discipline to the loft type building where functions are internally intermixed. However, in the course of study it became clear that the ultimate solution did not lie in any single set of criteria but rather in the careful selection of those most beneficial to the specific activities to be undertaken in each department. This resulted in the development of a scheme which combined the best of each of the others and explored its ultimate application to the program requirements. The final scheme was not projected into architectural design but did however, illustrate the utilization of beneficial design criteria into a development plan.

A comprehensive statement of the study is presented in a previous publication "Alternative Development Concepts for the Southwest Quadrant", University of Oregon, November 1968.

The Site

The site for the project, shown on Plate 1, Vicinity Map is bounded on the East by the Pioneer Cemetery and Music Building, on the South by Eighteenth Avenue, on the West by Alder Street and on the North by the Library and existing Education Building. There is a difference in grade of approximately 35 feet sloping up from Alder Street to the cemetery boundary. The grade is relatively uniform in the North-South direction.

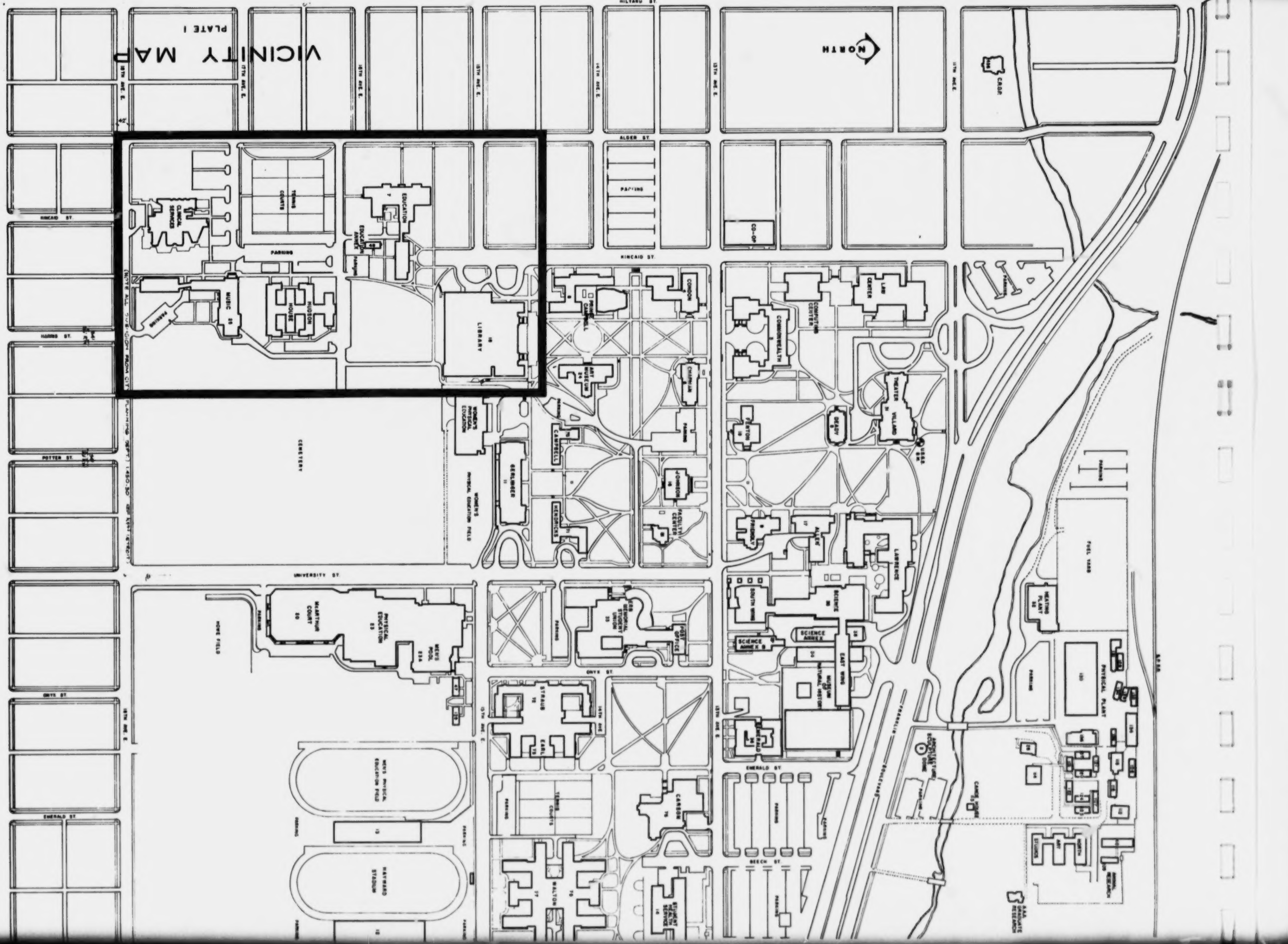
The site contains the Vets Dorm Building now being utilized for general office space; tennis courts, and a former high school building used by the College of Education. A Clinical Services Facility is under construction West of the Music Building. The area West of Alder Street and South of Eighteenth Avenue is single and multi-family residential.

The development of the site with regards to major pedestrian circulation assumes that a portion of the Pioneer Cemetery may at some future time be available to the University and that the projection of the Kincaid Street axis will create a major North-South route to the main campus.

Soil investigations made on the site indicates rock is within ten feet of the surface over most of the site. Consideration of this has been made in all phases of the study.

PLATE 1

VICINITY MAP



(NOTE ALL SUBDIVISION FROM CITY PLANNING DEPT.) (490-3000 EXT. 6781)

The Program

A design program outlining the functional requirements for the Behavorial Science Facility and the College of Education along with their projected net assignable areas and gross building areas as prepared by the concept study. The functional diagrams showing the relationship of departmental organization are shown on Plates II and III. Those functions within the dotted circle are included in this first stage of construction. The assignment of spaces was tentative and serve only to enable the development of alternatives. Verification of space assignments was made in the Schematic Design Phase.

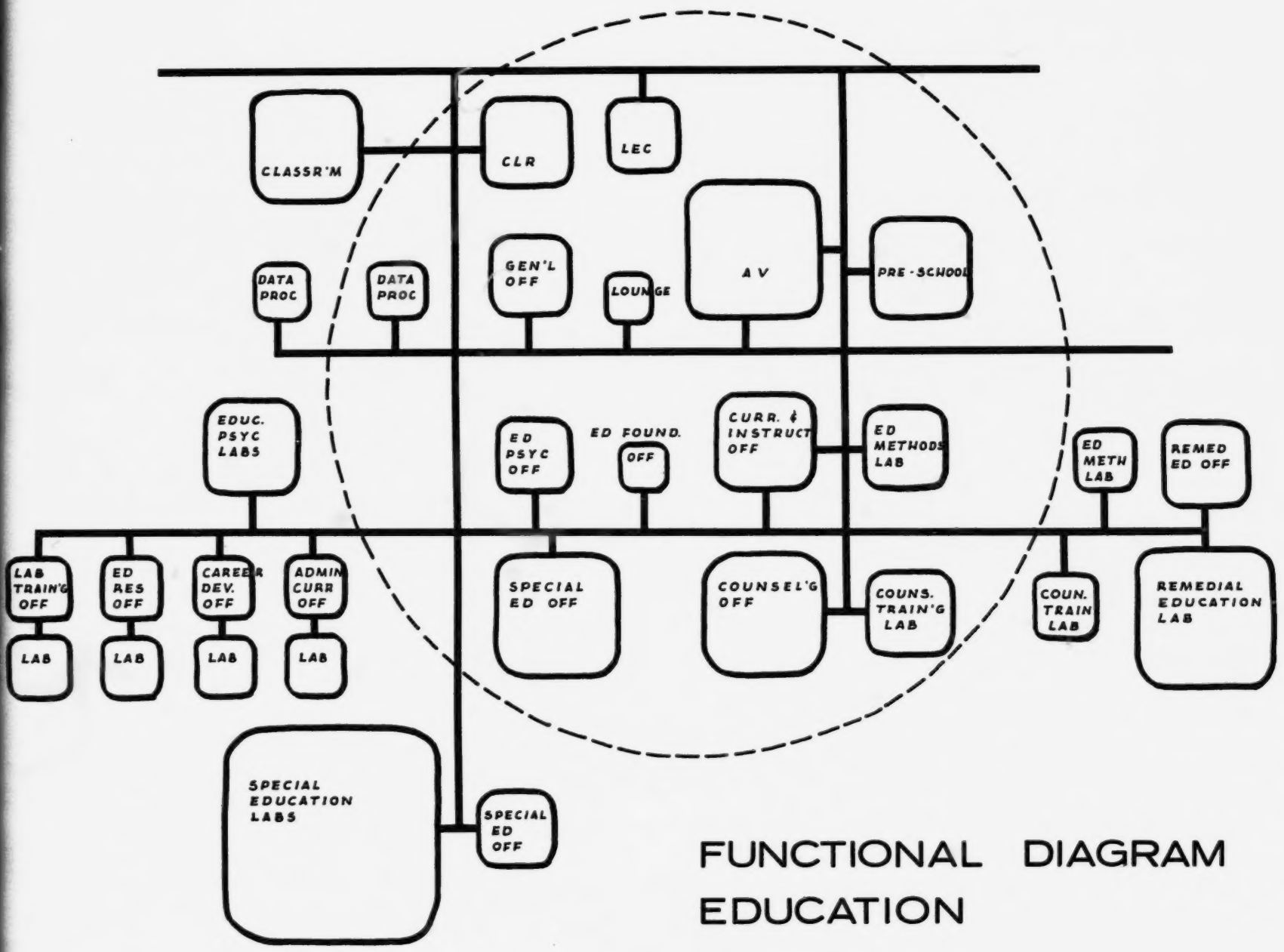
In addition to fulfilling these basic program requirements, this study was extended to establish the ultimate density which could be accommodated on the site (See Alternative Development Concepts for the Southwest Quadrant, University of Oregon, November 1968.)

Existing and Projected Facilities

Consideration was given to facilities existing on the stie or anticipated additions to them. This was limited, however, to their impact on the development of the program facilities as they might affect vehicular and pedestrian access and egress; off-street parking; service and emergency vehicular access; and volumetric and building density.

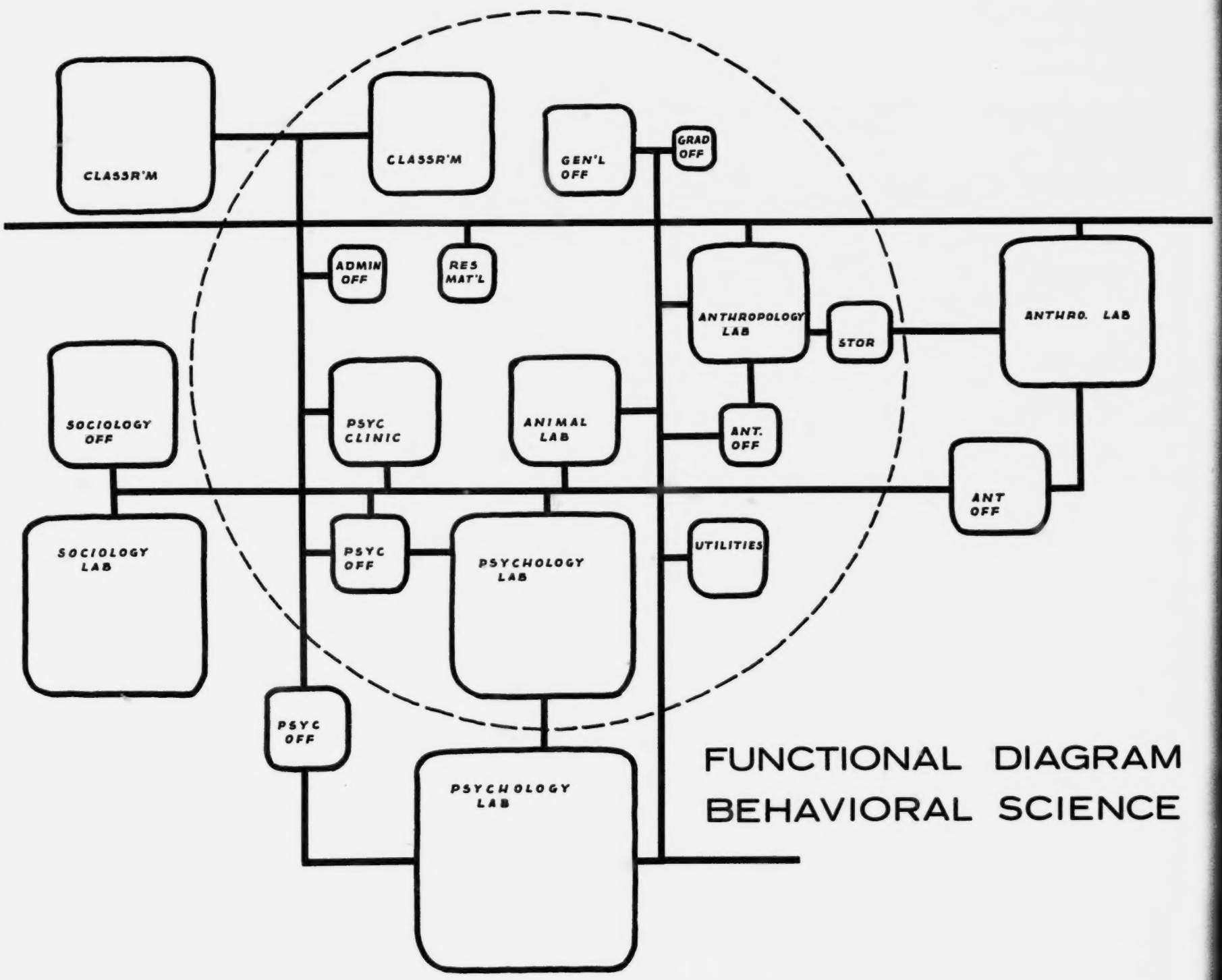
A six-story addition to the School of Music was projected East of the existing buildings and enclosing an interior courtyard. Such an addition affects this project only to the extent of determining the location of vehicular access to the Behavorial Science Facility.

The Clinical Services Building now under construction is located to the South and along 18th Avenue. It is anticipated that additions to this facility would be located at the corner of 18th and Alder. It is suggested that the addition should be of low profile due to its proximity to 18th and Alder Streets and relationship to surrounding residential development.



FUNCTIONAL DIAGRAM
EDUCATION

PLATE II



FUNCTIONAL DIAGRAM
BEHAVIORAL SCIENCE

PLATE III

It is anticipated, that as the University population expands, a major expansion of the Library Facility would be necessary to serve the growing enrollment. The area South of the existing Library has been reserved for this expansion as a multi-story element. The extension of the Library either East into the cemetery area or West toward Alder Street would permit a less massive volumetric form for this facility.

Construction Phasing

Construction phasing for both the College of Education and the Behavorial Science Facility is in two increments. The anticipated gross area for the first programmed phase for the College of Education is 83,250 square feet and for the second phase 84,400 square feet. The anticipated gross floor area for the Behavorial Science Building is 104,000 square feet for the first phase and 168,900 square feet for the second phase. This results in a first phase construction program of 187,250 square feet and an anticipated second phase of 253,300 square feet. In order to make the highest utilization of existing facilities for as long a period as possible, Phase 1 provides for the retention of all existing buildings on the site except the Vet's dormitory and the tennis court facilities.

Limits of Density

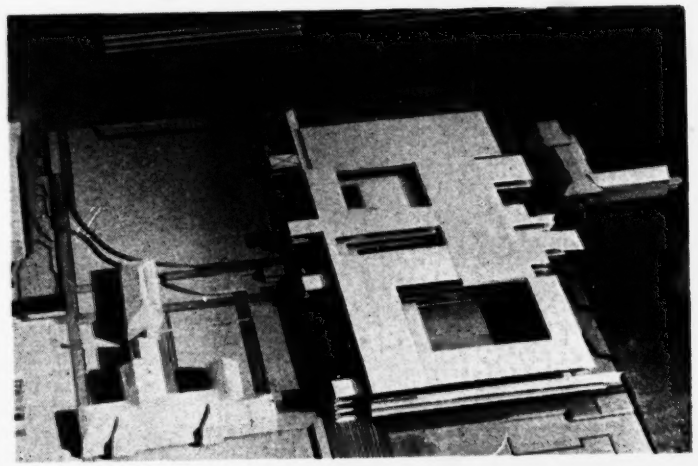
The ultimate development is limited by the scale of the building complex as it relates to the surrounding campus and to the adjacent residential areas. It has been attempted to place lower building elements along Alder Street with higher elements in locations along the East side of the site where terrain elevation differences could be capitalized.

Parking

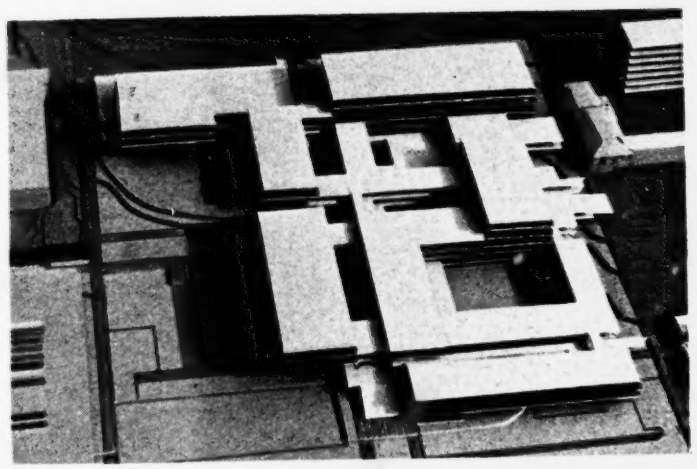
The original building program proposed the provision of 500 parking spaces on this site in addition to the academic buildings. This was

Subsequently modified to provide only as many spaces as possible within the context of the scheme with the assumption that a proposed parking structure at 14th Avenue between Kincaid and Alder Streets would be developed in the future.

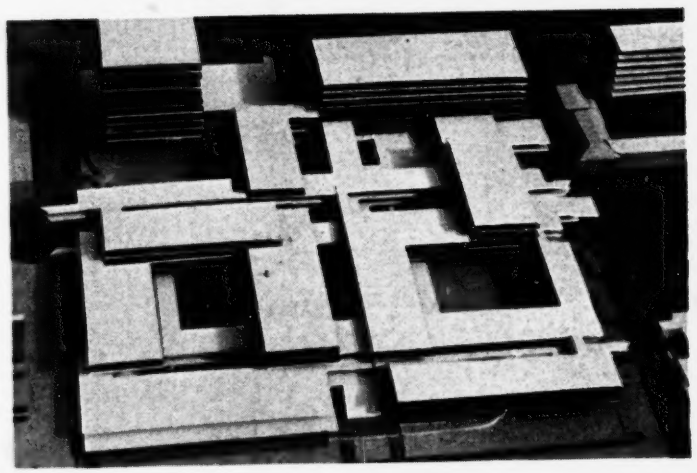
Covered parking for 83 cars with access from Alder Street can be provided under the ultimate development plan. This could be on grade until such time as the area is developed. Parking for 200 cars could be provided under a future addition to the Clinical Services building if this could be funded.



Phase One



Phase Two



Ultimate Phase

The Development Concept

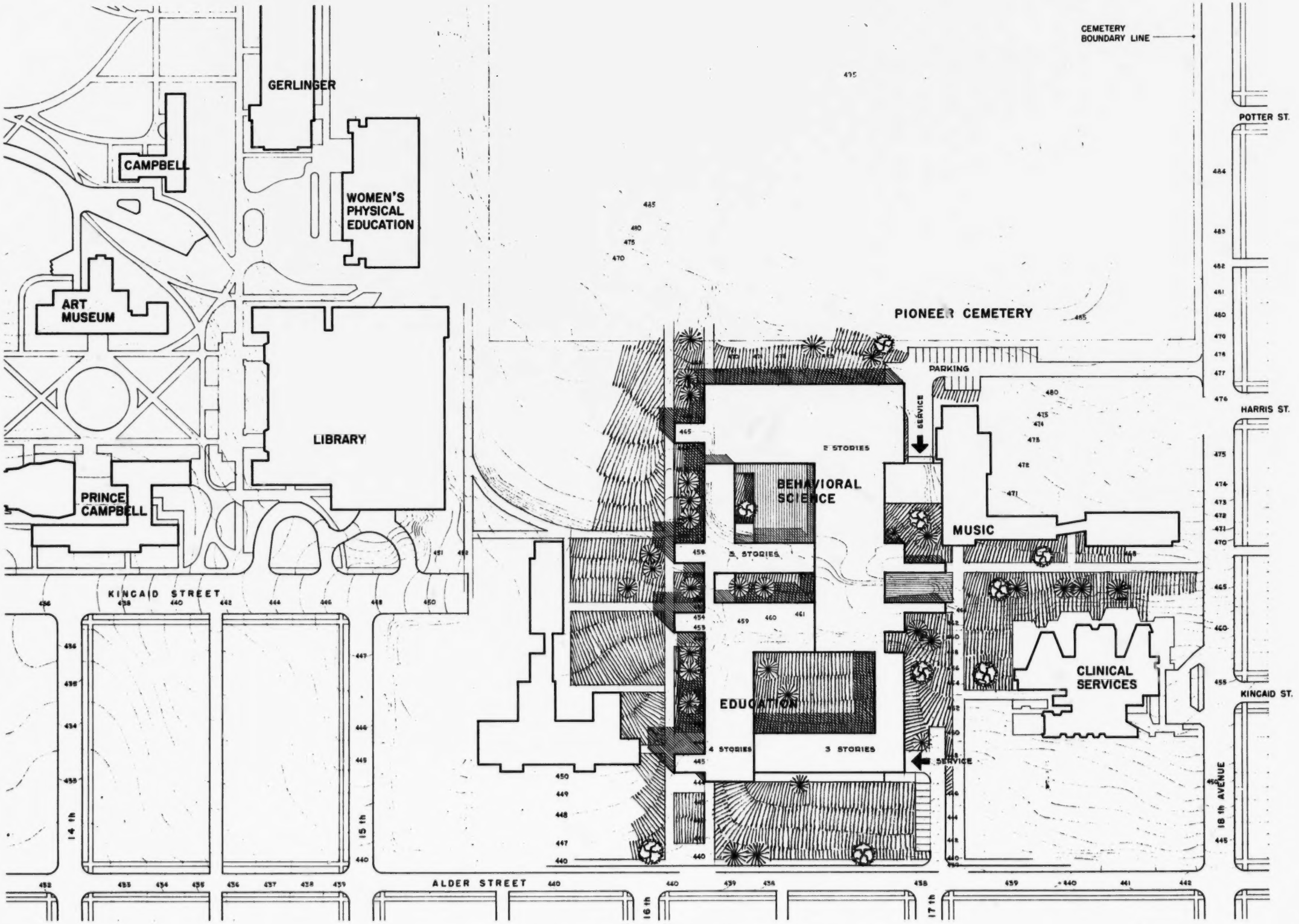
The Development Concept adopted as the basis for the plan, resulted from the advantages suggested by the other studies. The College of Education and Behavorial Science Facility are separated by an axis extended from Kincaid Street to 18th Avenue. The Building elements within these areas are uniform in character and contain the related laboratory and office space with classrooms located centrally for joint use. A general purpose area overlaps the two schools providing a degree of flexibility in assignment of space. A large building element near the cemetery provides loft type space evident as desireable in the program.

Public service facilities are at or near ground level and have access from parking. These are located within their related academic areas.

A pedestrian axis is established from Alder Street East to an alignment with a right of way at the boundary of the cemetery. Well defined covered circulation parallels the two axes with a strong emphasis of stair elements, some containing elevators. This circulation becomes an extension of interconnecting assignable building spaces. The sloping site and parallel circulation provides ground access at three levels permitting a variety of high occupant load locations.

The configuration of the building creates a variety of open spaces interconnected at the ground level through openings between buildings. This provides a low area of actual ground coverage. These landscaped open spaces are viewed from the structures above and provide circulation at ground levels among building units.

Phase One presents a unified building complex. The incrementation to Phase Two requires horizontal expansion to the North and West in addition to two elements of vertical expansion to Phase One construction. Circulation is within these vertical elements. Ultimate development is achieved with a further horizontal expansion to the North and a vertical expansion to the East wing. Service areas appear at three perimeter locations with elevators and interconnecting routes facilitating distribution to the entire complex.



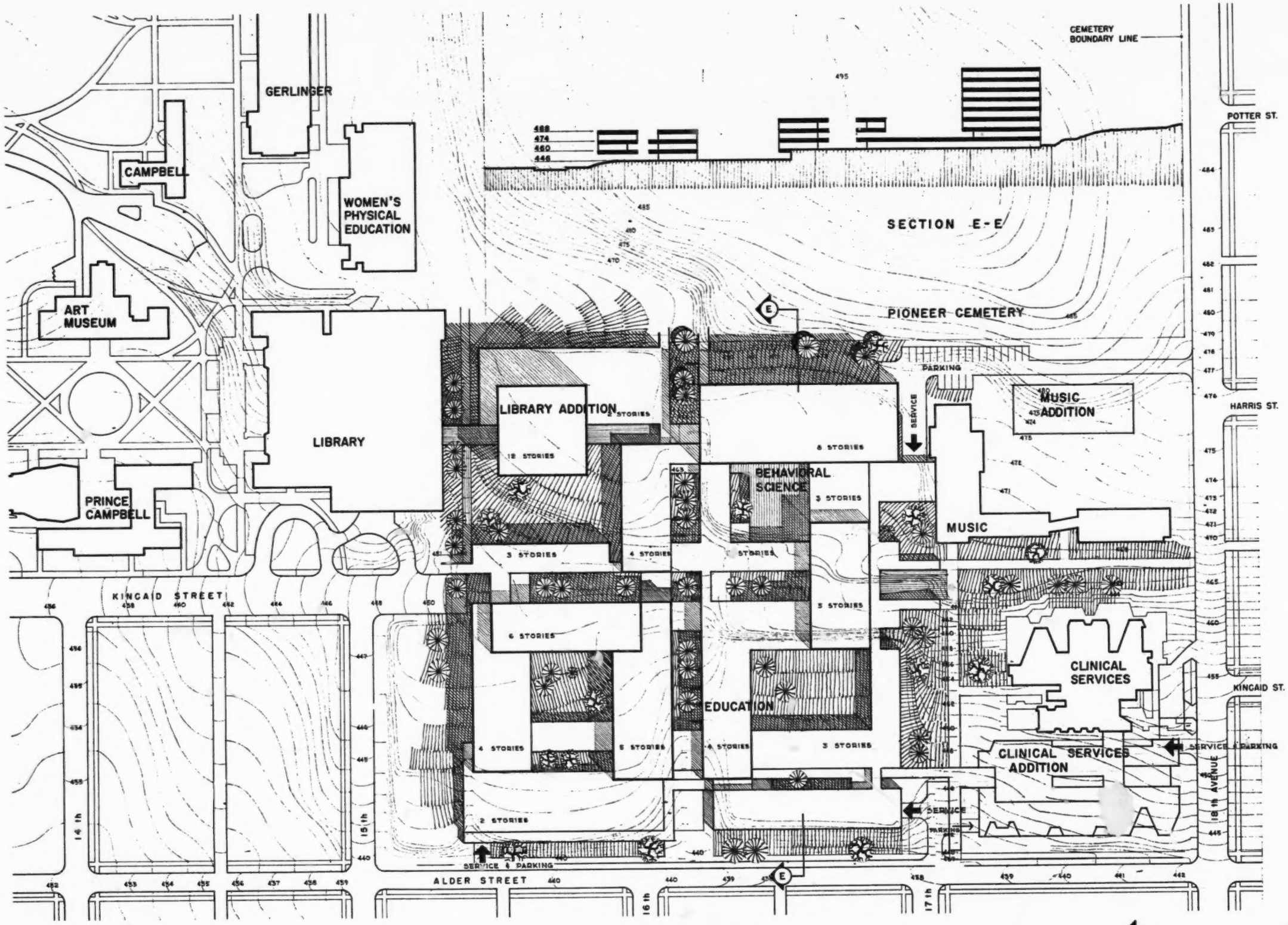
DEVELOPMENT CONCEPT

PHASE I
S. W. QUADRANT UNIVERSITY OF OREGON

NORTH

PLATE IV

0 100 200 300 FEET



DEVELOPMENT CONCEPT

ULTIMATE PHASE
S. W. QUADRANT UNIVERSITY OF OREGON

NORTH

PLATE V

0 100 200 300 FEET

DESIGN DEVELOPMENT PLANS

DESIGN DEVELOPMENT PLANS

The Design Development Plans extend the earlier Concept Studies in-to a detailed architectural and engineering solution for the project. The basic premises and physical framework established in the Concept Study has been retained. The design program, which established only a broad base, has been extended through conference and studies with the using agencies. This has resulted in minor changes of functional relationships in the design but no major change of space allocation or utilization.

Design Development Criteria

With the adoption of one alternative of the Development Concept Studies the University of Oregon and the State Board of Higher Education established a set of planning implications and design criteria phase that have been maintained throughout the Design Development Phase. These are summarized as follows:

The re-evaluation of the present policy of considering campus development patterns on an individual and unit by unit building basis has led to the combining of building programs of differing disciplines and the interrelating of common program needs. This has provided the opportunity to bridge the gap between independent programs and to relate them to a broader concept of over-all University need as well as the fluctuating needs of individual departments.

Design Criteria: Inter-relationship of Common Departmental Space.

Provide an inter-relationship of spaces which are common among departments and which might have long-range common uses such as offices, classrooms and similar spaces, to allow the University flexibility of allocating space over long periods of time.

Design Criteria: Interior Building Spaces with Flexible Character.

Provide interior spaces of a versatile and flexible character which may be changed or modified in space utilization and serving utilities over a long period of time.

The re-evaluation of the present campus development patterns, building density standards, and land coverage standards has led to the adoption of a building concept for the project which establishes a basic potential of the site and surrounding areas and assures a high utilization in light of future demands placed on the area.

Except for the site that has been designated for the Clinical Services Building and its future additions, all of the remaining area of the South-west Quadrant should be considered as ultimately buildable. In light of the fact that the land available to the University is and will continue to be limited, it is imperative that the full potential of this area for building capacity be achieved.

Design Criteria: Incremental Phasing Plan.

An incremental and development phasing plan which offers the maximum choice of future expansion priorities as well as meeting the first phase building program has been established A second phase building program has been provided for in the immediate expansion plans for the complex. These future building needs may encompass expansions for departments contained in the first or second phase or may contain new departments.

Building space envelopes with tentative functional assignments to planned and unplanned future program needs have been established for the ultimate development. Within these building space envelopes, certain flexibilities may be achieved depending upon the particular building needs at any time but they reflect at this time the most logical statement for future space envelopes.

Design Criteria: Open Space Patterns of Effective Character.

A meaningful pattern of quadrangles, malls and other permanent open spaces which works effectively with adjacent and future spa-

ces has been designed as an integral part of the building. These provide for a continuity and extension of adjacent open spaces and are designated for particular activities where such are required.

Design Criteria: Pedestrian Circulation Plan and Density Level Zoning.

A vertical and horizontal pedestrian circulation plan for the area which extends and integrates into the adjacent campus and community has been established. The pedestrian circulation plan is an integral part of the open space system. A major north-south circulation route will extend at the high density quadrangle of the Library and Prince Lucien Campbell along Kincaid Street South through this complex and to the Music Building and Clinical Services Building. An east-west pedestrian route will be located North of this building phase and will extend eastward through the Pioneer Memorial Cemetery walkway system to the Physical Education complex at Hayward Field. This pedestrian circulation route will be the basic circulation framework into which future buildings will be integrated.

In addition, the building complex has been zoned vertically to recognize the varying activities and circulation densities. Those areas most commonly frequented by large groups of students will be on the lower levels, graduate and undergraduate laboratories and teaching areas and seminar rooms will be on the intermediate levels. This vertical zoning has been developed so that it is expanded as the complex grows.

Each major departmental function is contained within one floor level with stairs and elevators connecting various departments and interdepartmental facilities.

Design Criteria: Vehicular and Service Access

Vehicular access and service patterns with primary consideration for service vehicles and additional consideration for short-term

parking have been established. The vehicular service pattern for this building has been studied with that for the adjacent buildings and permanent locations for such service have been established which will be maintained as the complex develops.

No major provisions for off-street parking will be made in the first phase. Existing short-term parking will be provided for those public areas where it is desirable and passenger pickup and delivery areas have been provided. Future expansion of the complex can provide up to 200 permanent parking spaces if these can be funded as a part of a future building program.

The re-examination of the original building program with the using agencies has resulted in minor modifications of area and useage. A comparison of areas from the Program to Development Concept to Design Development is shown in Appendix 1. A change in the method of reporting building areas has resulted in a floor area change.

These area figures are further detailed in Appendices 2 and 3 which itemized floor areas by designated activities on each floor level.

Constant cost control and adjustment has been maintained throughout the Project. Appendices 4 and 5 indicate the comparison of Schematic Design and Design Development budgets for both the College of Education and the Behavorial Sciences Building. As their tables indicate, adjustments within the budgets have been made but with no anticipated change in the overall budgets.

The Building Plans

The building complex is on four levels. The College of Education occupies Level One (elevation 448), Level Two (elevation 462), and Level Three (elevation 476). This area is capable of having two additional stories if desirable.

The Behavorial Science Complex occupies three levels; Level Two (elevation 462), Level Three (elevation 476), and Level Four (elevation 490). This building area is capable of having an additional six stories on the East side and two stories on the North, West and South sides.

Level Four of the Behavorial Science Building overlaps and would tie into the future level Four of the College of Education.

College of Education

The main use of the lower floor of the College of Education is the Pre-School Facility. This is on the West side of the building adjacent to and immediately accessible to Alder Street to allow parents to deliver and pick-up children attending this facility. The courtyard at this level is mainly devoted to playground activities for the Pre-School. Other activities which occur on this level are the Audio-Visual Teaching Laboratories and Classrooms. In this area, the graduate and undergraduate students learn the technique of preparing new audio-visual teaching media and the utilization of autio-visual teaching equipment. This facility ties directly to the presentation area of the teaching auditorium. Office space for graduates and graduate assistants and a data processing center also occur on this level.

Level Two of the College of Education is devoted to teaching and administrative activities. The main administration center for the College of Education is along the West side adjacent to Alder Street. Undergraduate classrooms and the teaching auditorium, seating 286, are immediately adjacent to the main pedestrian access route from the main campus. Linking the classrooms and the teaching auditorium is a student/faculty lounge which opens to the pedestrian plaza. Along the South side of this level are additional general and special purpose class-rooms for Educational Methods.

The third level of the College of Education is occupied by offices for staff and teaching assistants. These are generally organized by departments each of which has its own entrance, waiting area, and secreterial center. These entrances are at the four corners of the building accessible by stairways or elevator. Rearrangement or reorganization of these offices is possible if desirable to meet changing needs within the College.

The Behavorial Science Facility

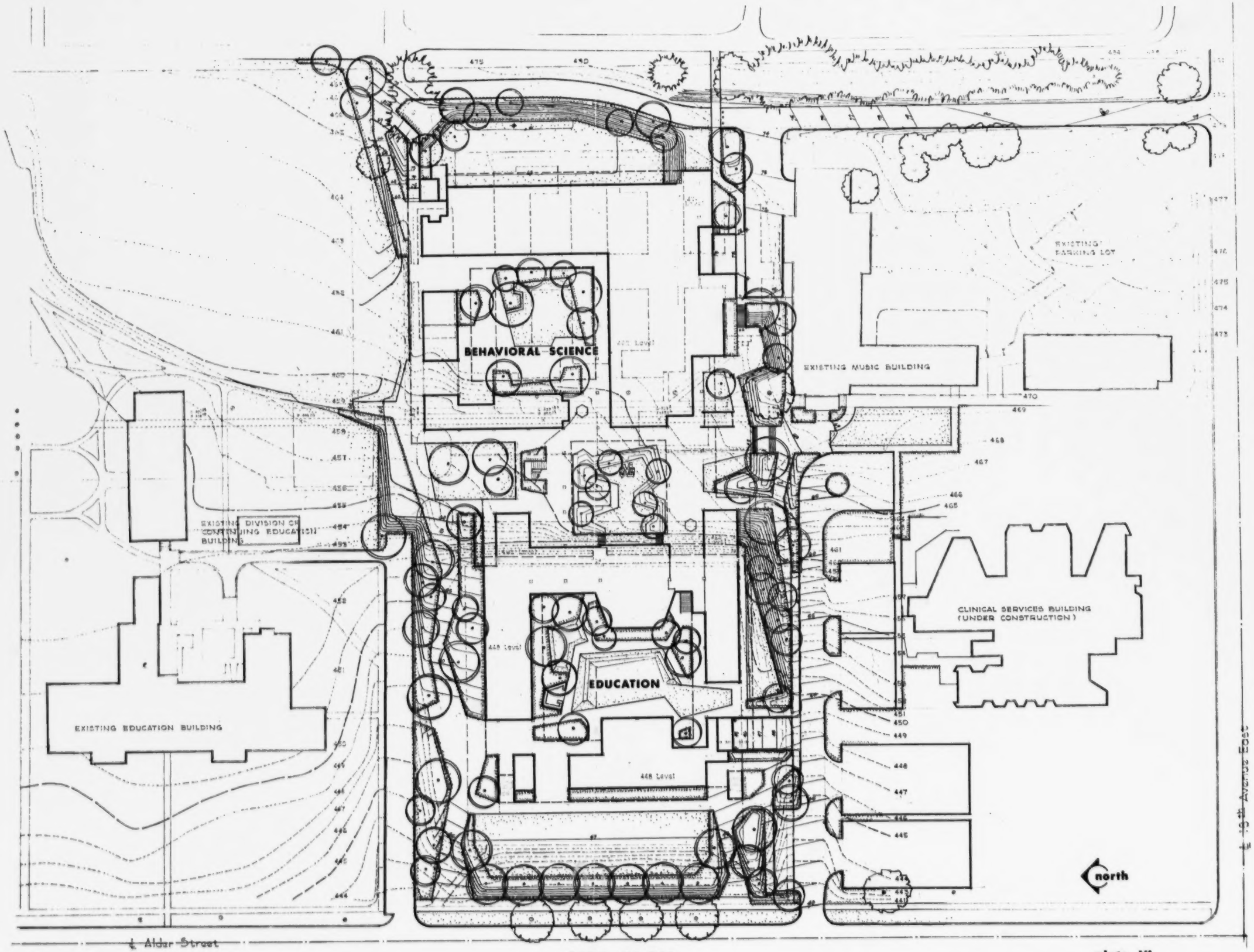
The Behavorial Science Facility is located East of the pedestrian axis

and separated from the College of Education by a pedestrian plaza. The lowest level of the Department of Behavorial Sciences is Level Two (elevation 462). This is the same level as the teaching auditorium and classroom level of the College of Education. In the Department of Behavorial Science, this level is devoted to undergraduate activities along the West and South sides. General purpose classrooms are located directly across from, and in conjunction with, general purpose classrooms of the College of Education. Undergraduate teaching laboratories, and inter-departmental activities occur along the South side of the building. The East side of the building is devoted to animal laboratories and colonies with related offices and laboratories. The exception to this is an anechoic sound chamber which is located on this level to take advantage of the underlying rock structure. This area can be expanded Eastward an additional 30 feet.

In conjunction with the general classroom and seminar areas, there is an undergraduate study and reading area which would be available to general University use.

Level Three (elevation 476) is devoted to Psychology and Anthropology. The Psychology Out-Patient and Research Clinic occupies a major part of this floor with immediate access for the public by stairway and elevator. The Psychology administrative offices are located on the West and North sides of this building. The Anthropology Laboratories and offices occupy the entire West side of this complex and have immediate access to the service elevators and services facilities. Access to Anthropology is at ground level at the northeast corner of the building. The Anthropology area can be expanded eastward an additional 30 feet.

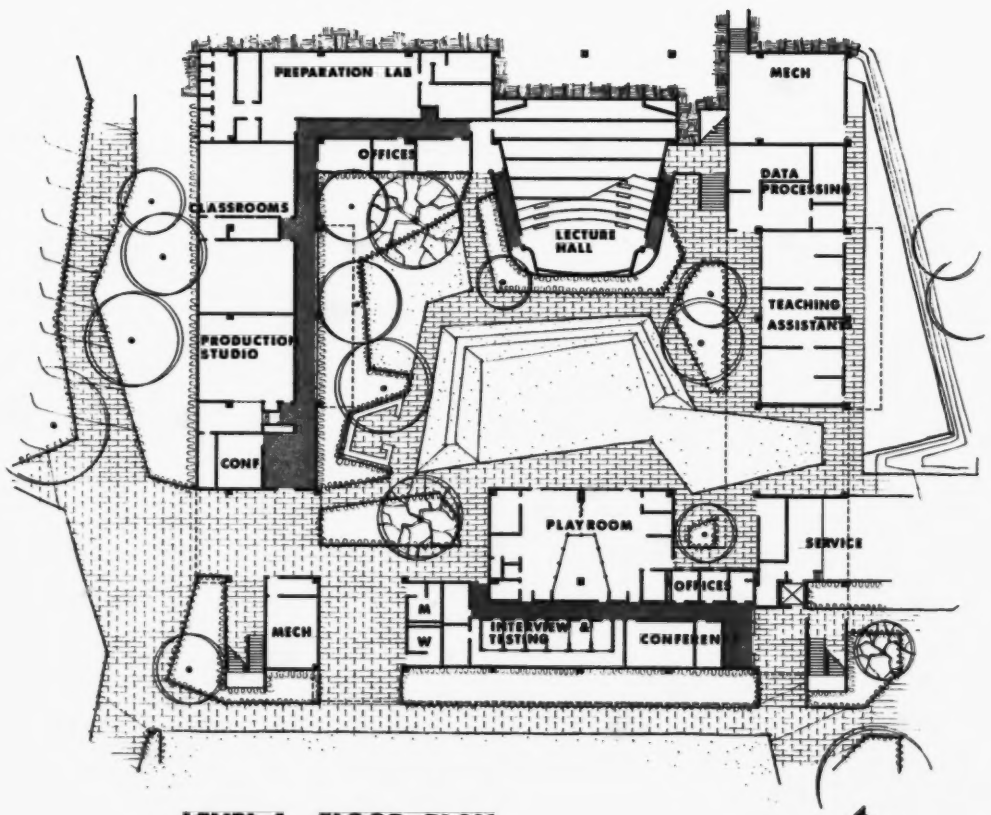
Level Four (elevation 490) is devoted to research and office facilities for staff and graduate students including Social Psychology research and Human Perception Learning and Research.



SITE PLAN

plate VI

0 50 100 150 FEET

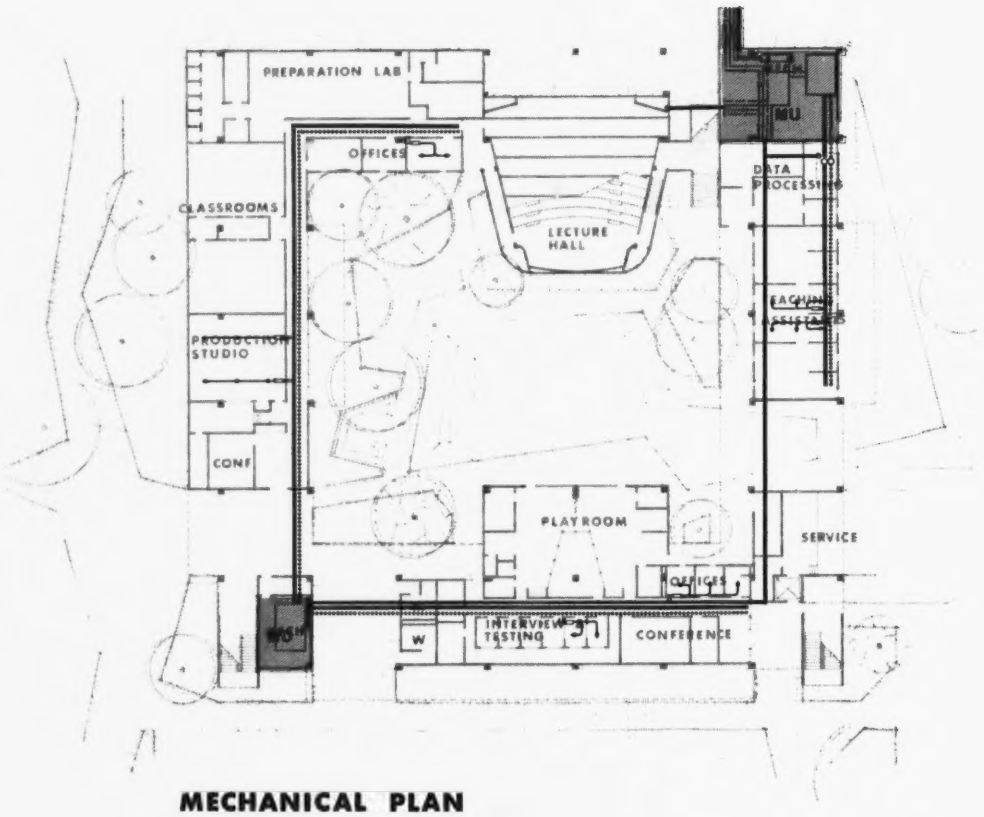


LEVEL 1 FLOOR PLAN

plate VII

MECHANICAL SYMBOL LIST

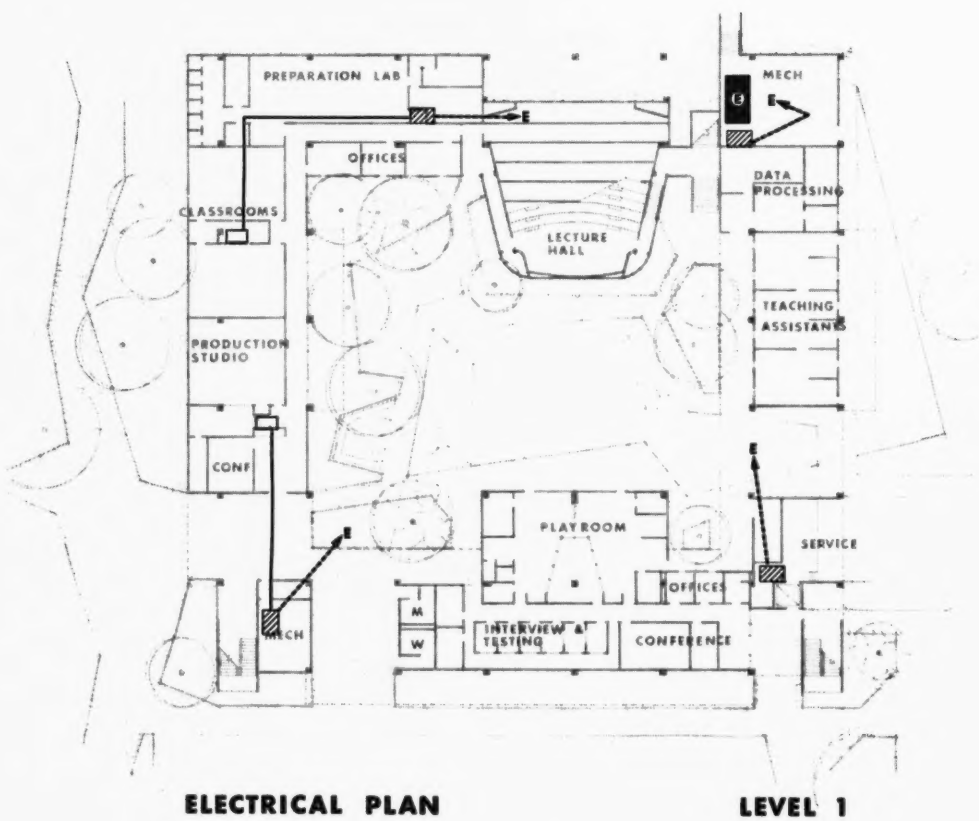
MU	MULTI-ZONE UNIT
.....	HIGH VELOCITY HOT DUCT
——	HIGH VELOCITY COLD DUCT
——	PIPING:
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	HEATING WATER SUPPLY
	HEATING WATER RETURN



MECHANICAL PLAN

ELECTRICAL SYMBOL LIST

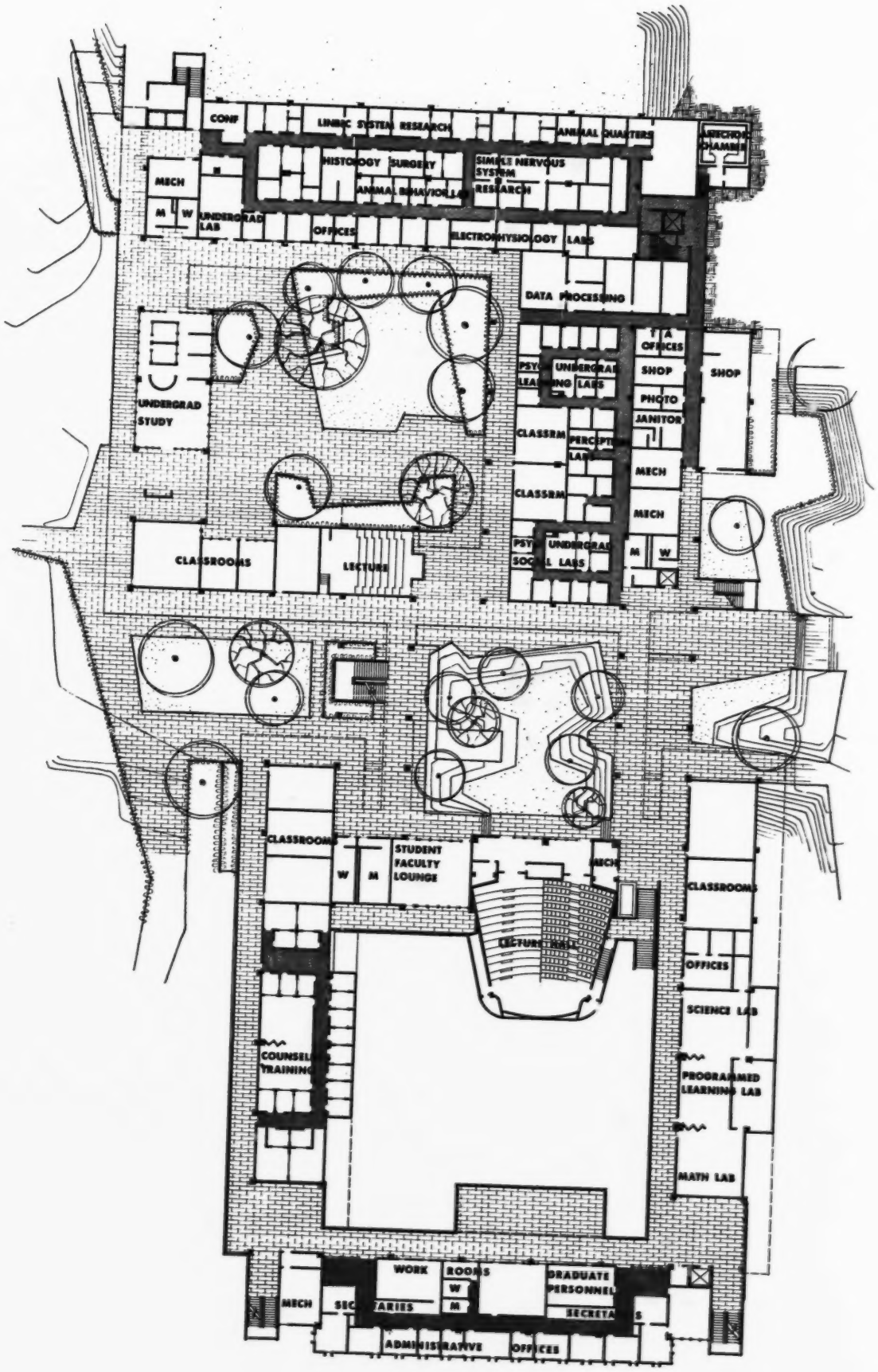
■	TRANSFORMER & 277/480 VOLT MAIN DISTRIBUTION ASSEMBLY (MDA)
▨	277/480V. PANEL, TRANSFORMER & 120/208V. PANEL
□	120/208V. PANEL
—o→	PRIMARY SERVICE: 4160 VOLTS - DELTA
——→E	277/480V. FEEDER FROM EDUCATION MDA
——→B	277/480V. FEEDER FROM BEHAVIORAL SCIENCE MDA
——	120 280V. FEEDER



ELECTRICAL PLAN

LEVEL 1

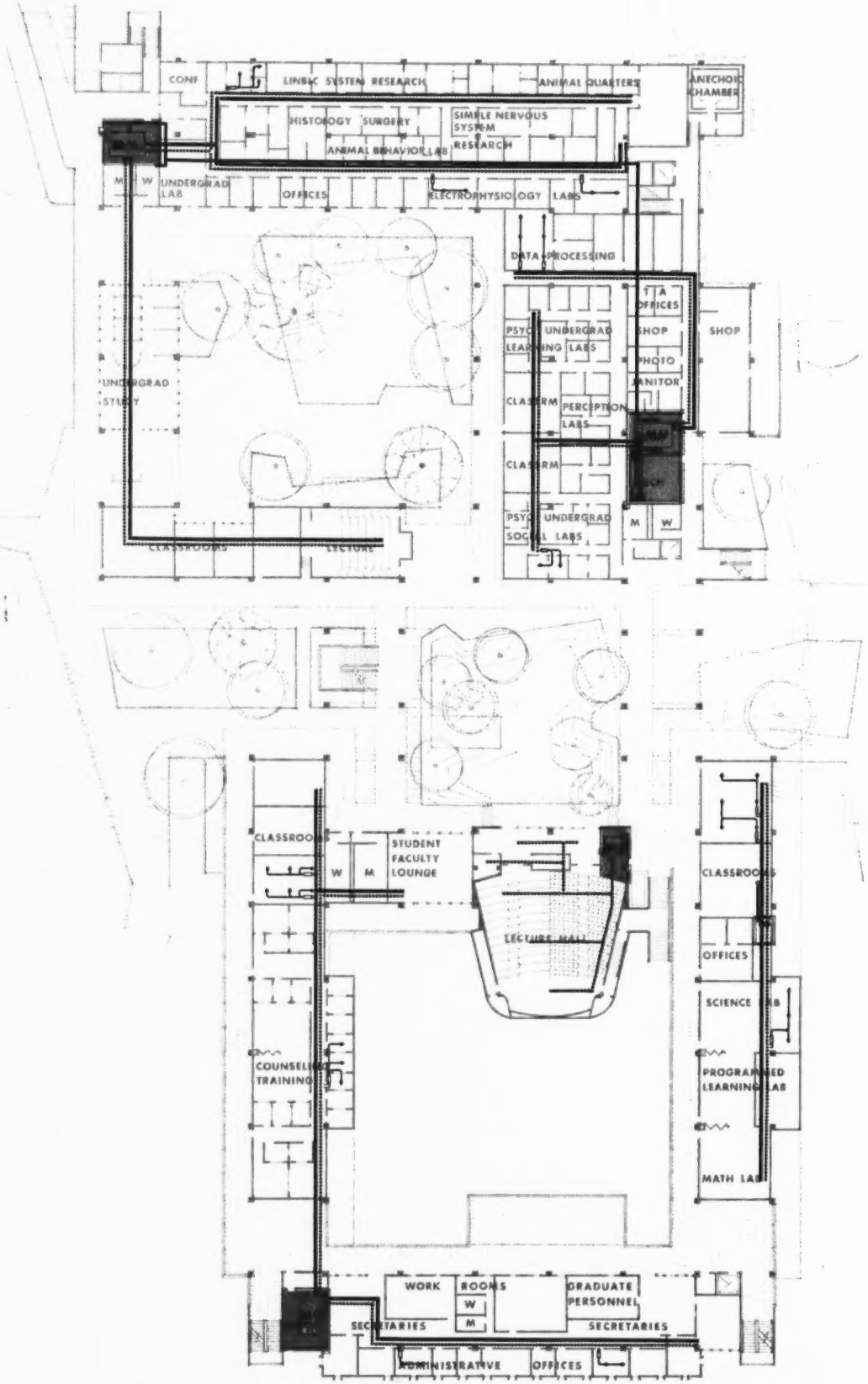
plate VIII



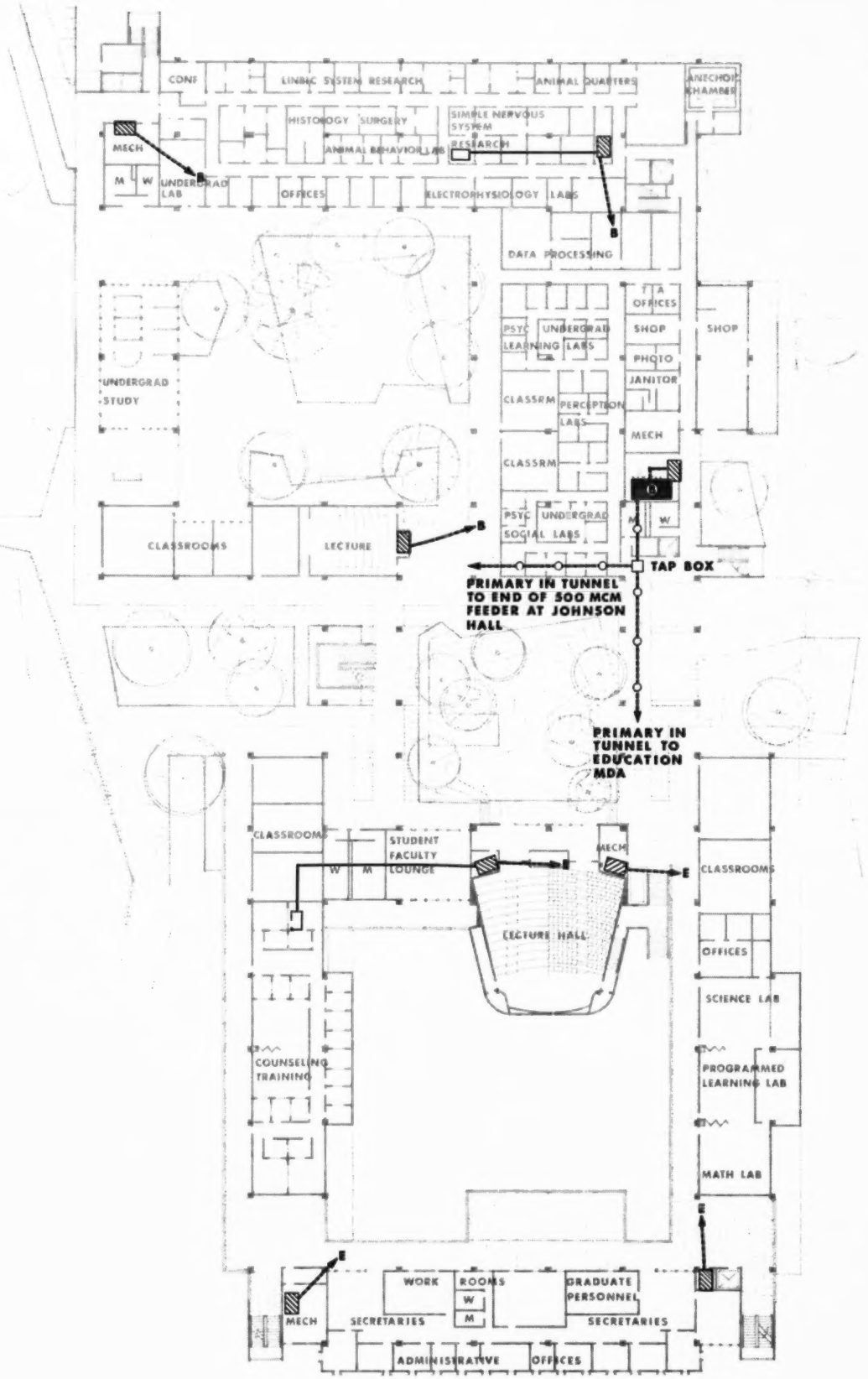
LEVEL 2 FLOOR PLAN

plate IX

north



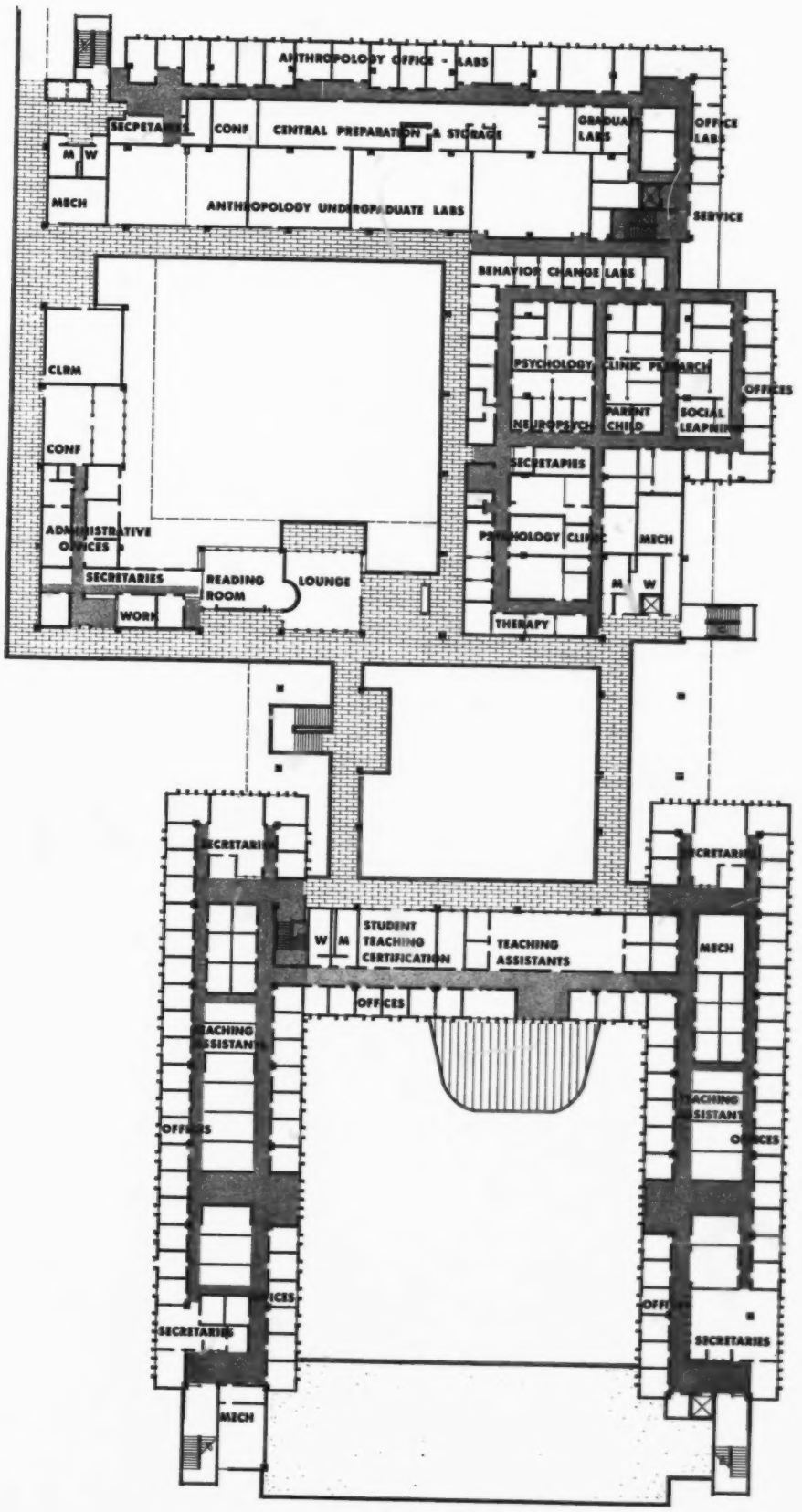
MECHANICAL PLAN



ELECTRICAL PLAN

LEVEL 2

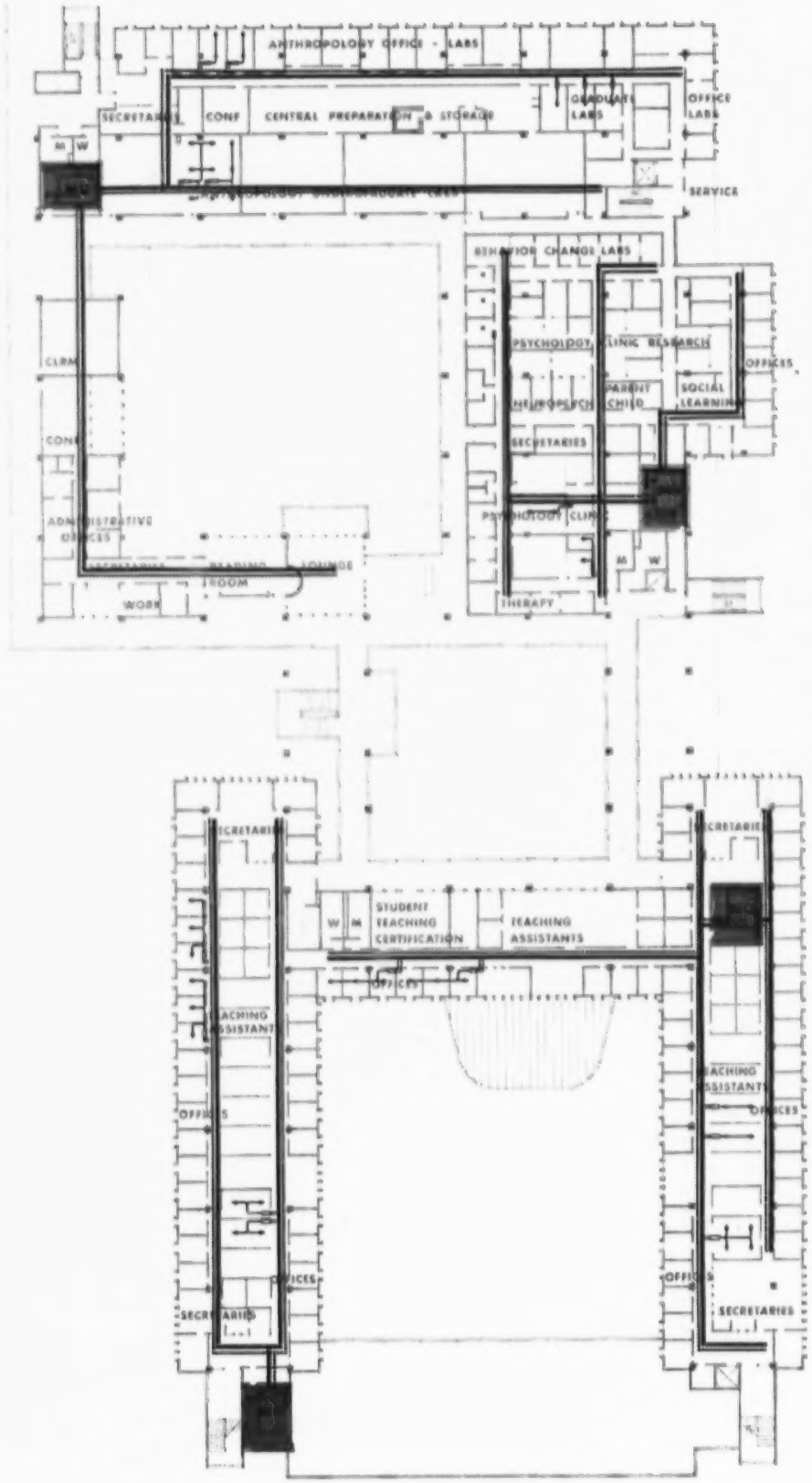
plate X



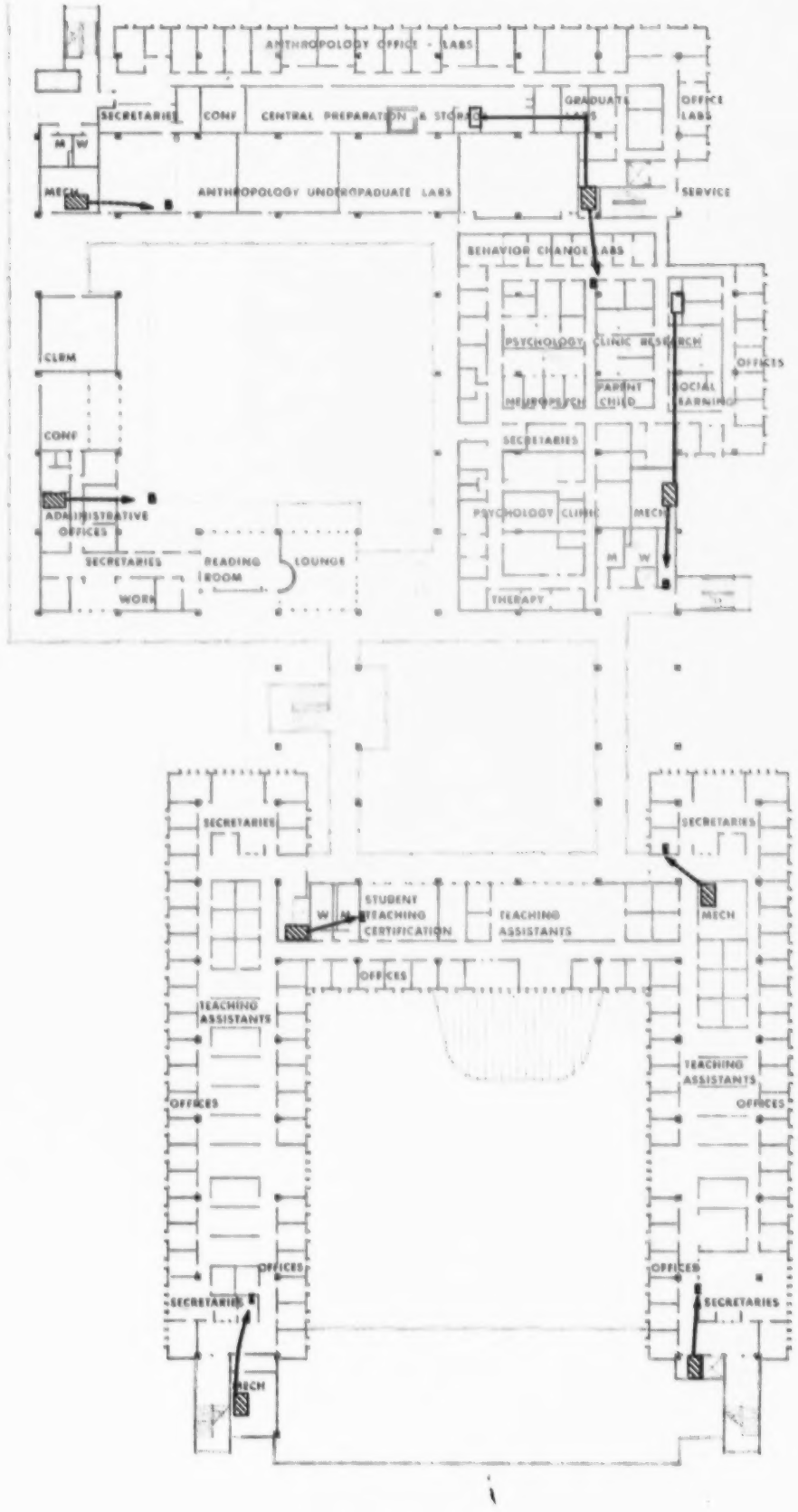
LEVEL 3 FLOOR PLAN

plate XI

north

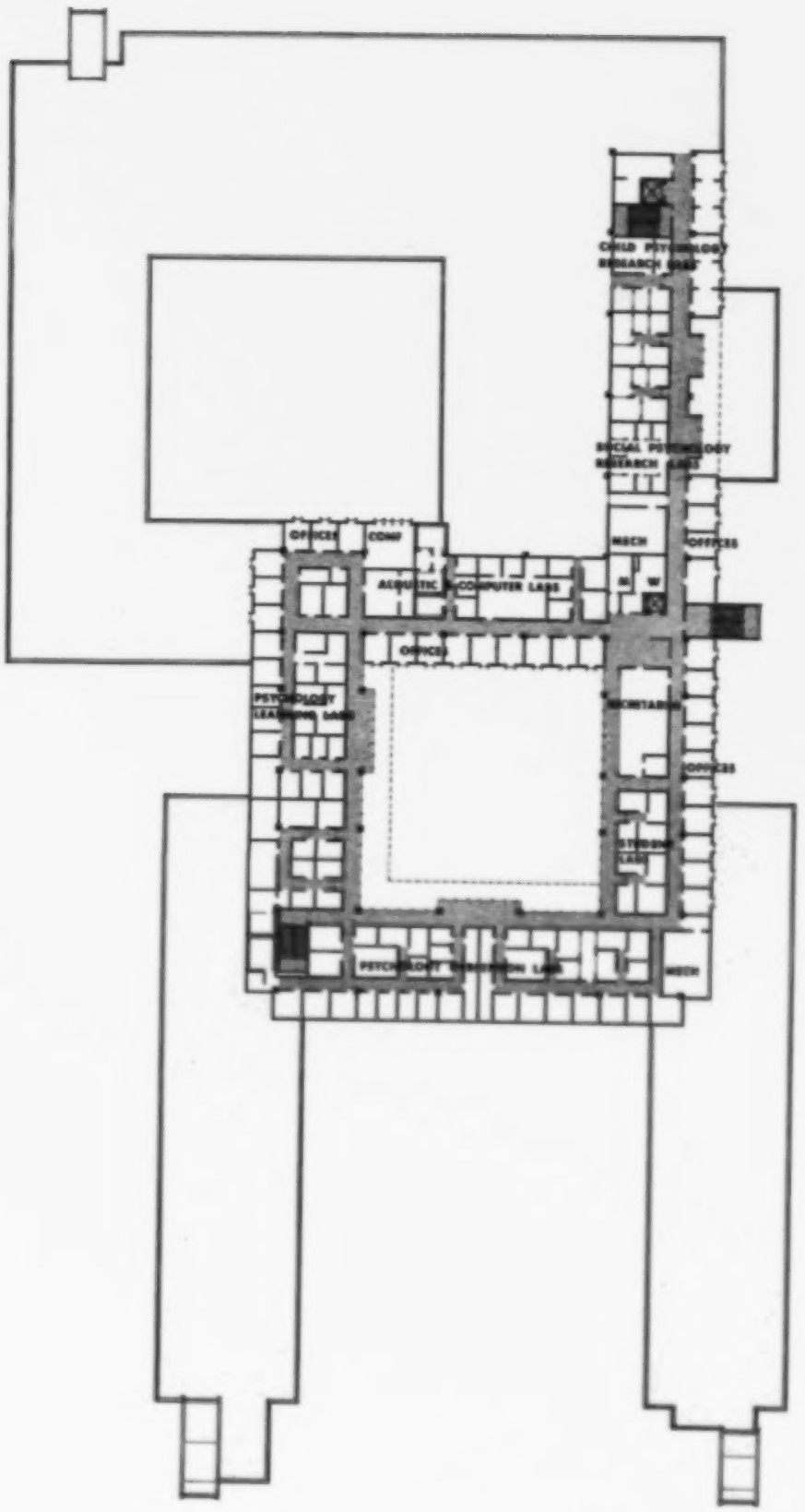


MECHANICAL PLAN



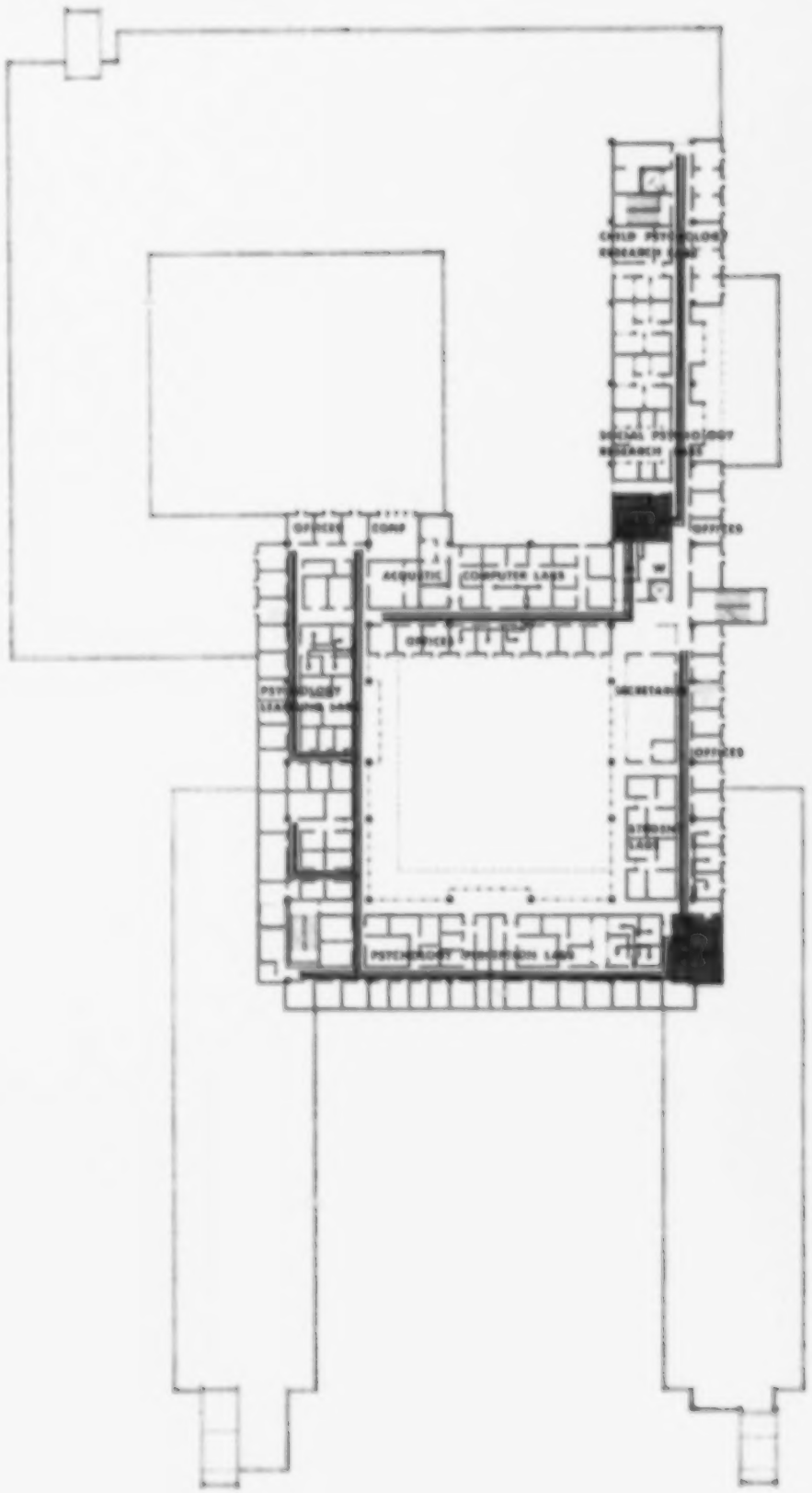
ELECTRICAL PLAN

LEVEL 3

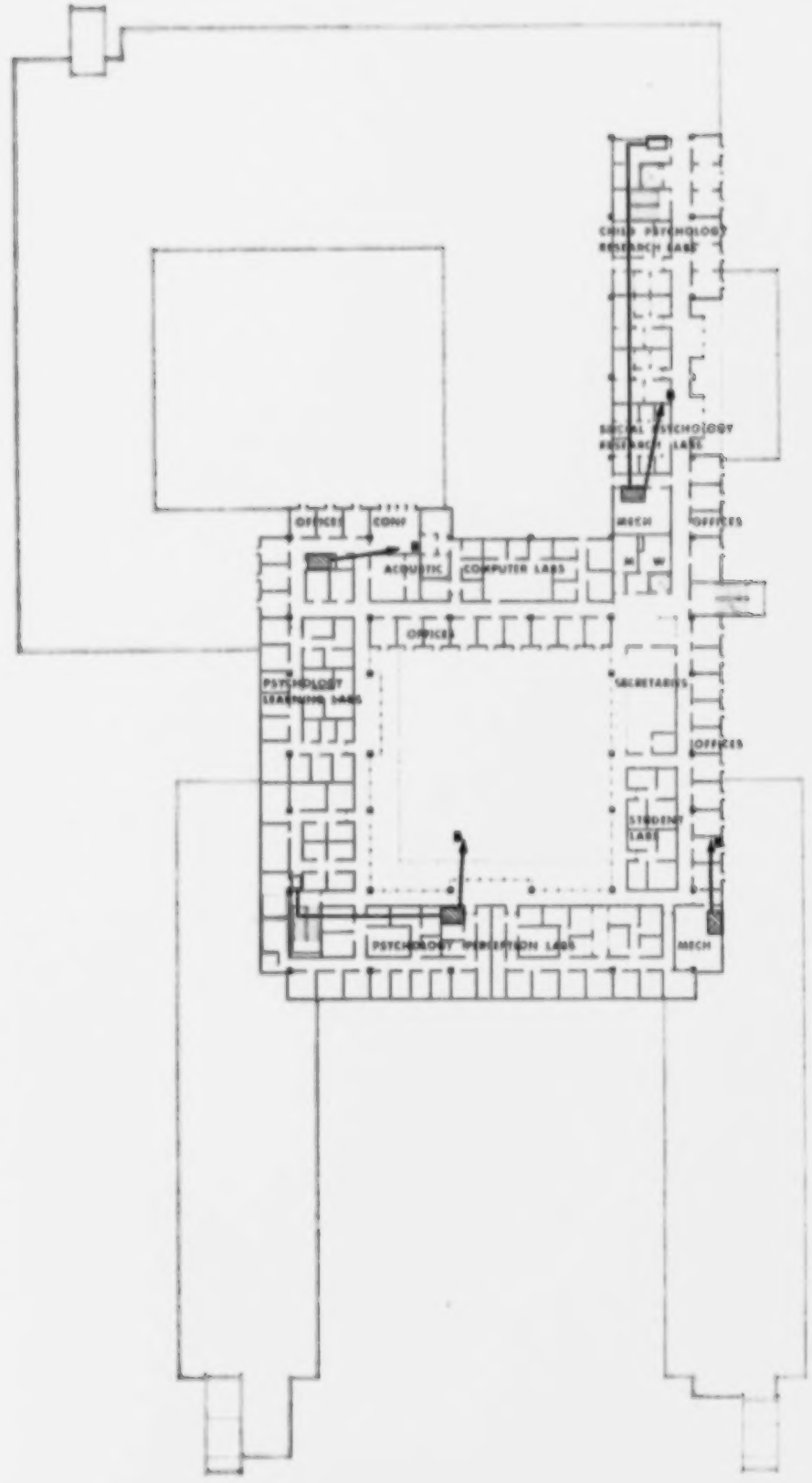


LEVEL 4 FLOOR PLAN

plate XIII



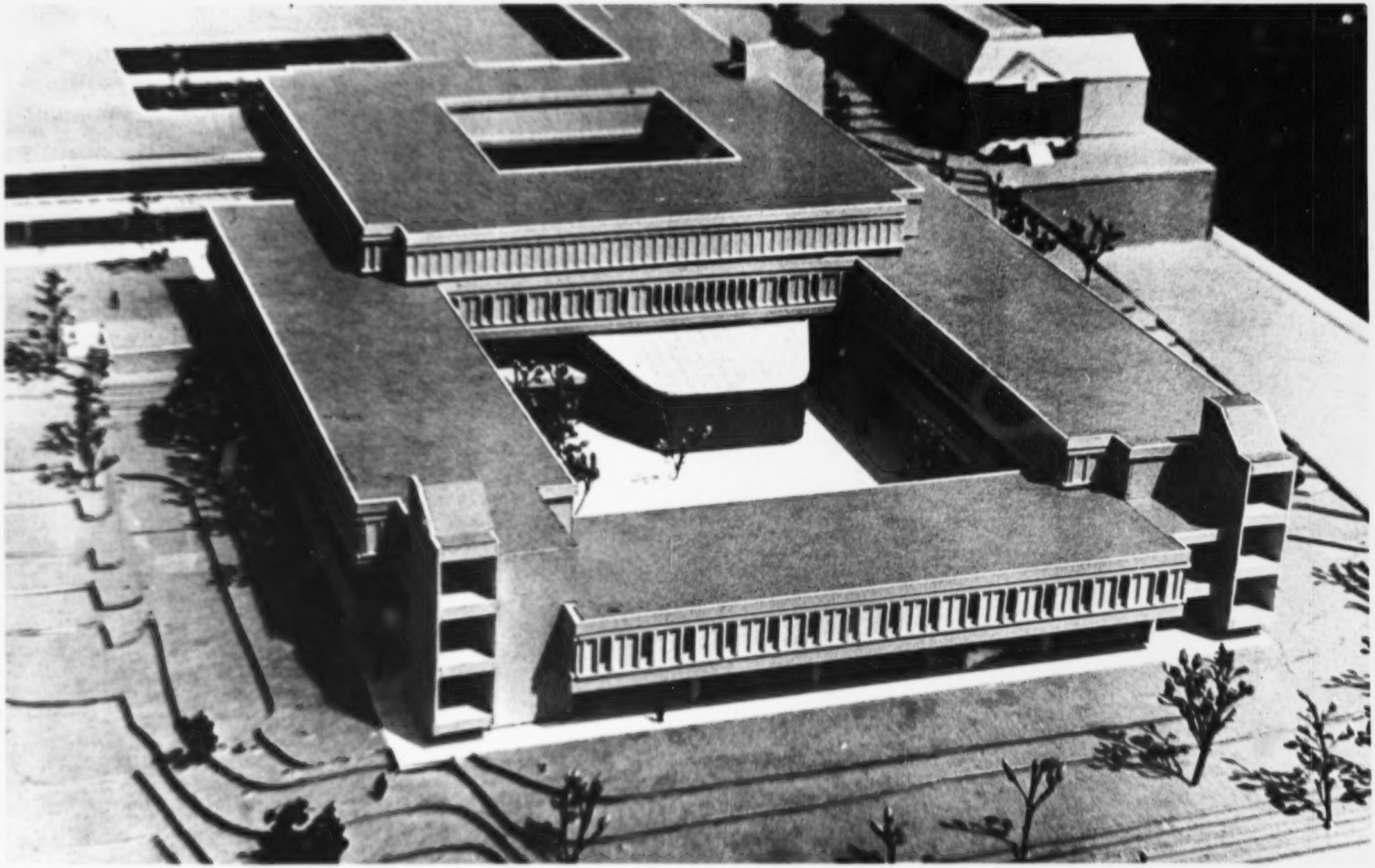
MECHANICAL PLAN



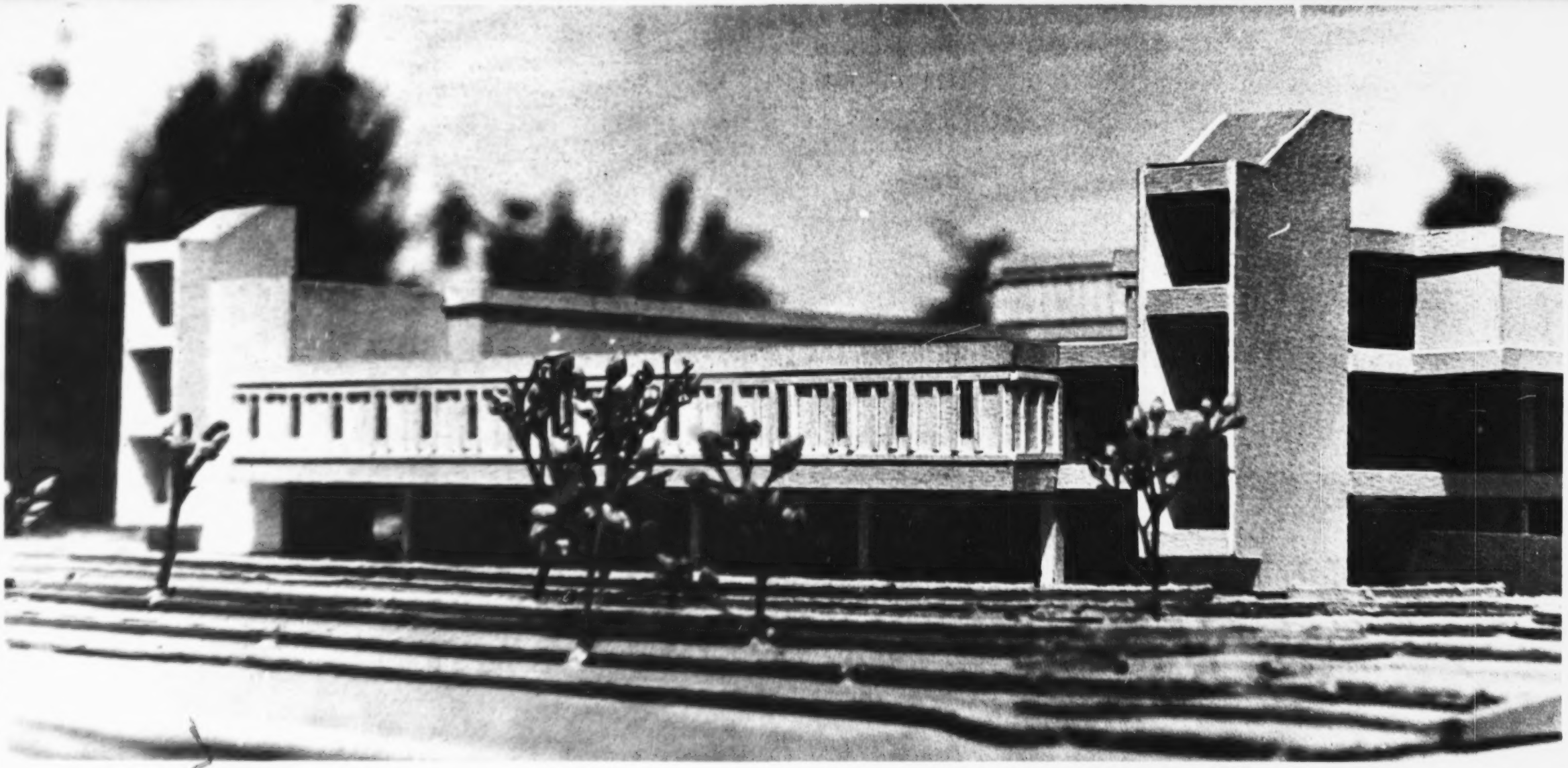
ELECTRICAL PLAN

LEVEL 4

plate XIV

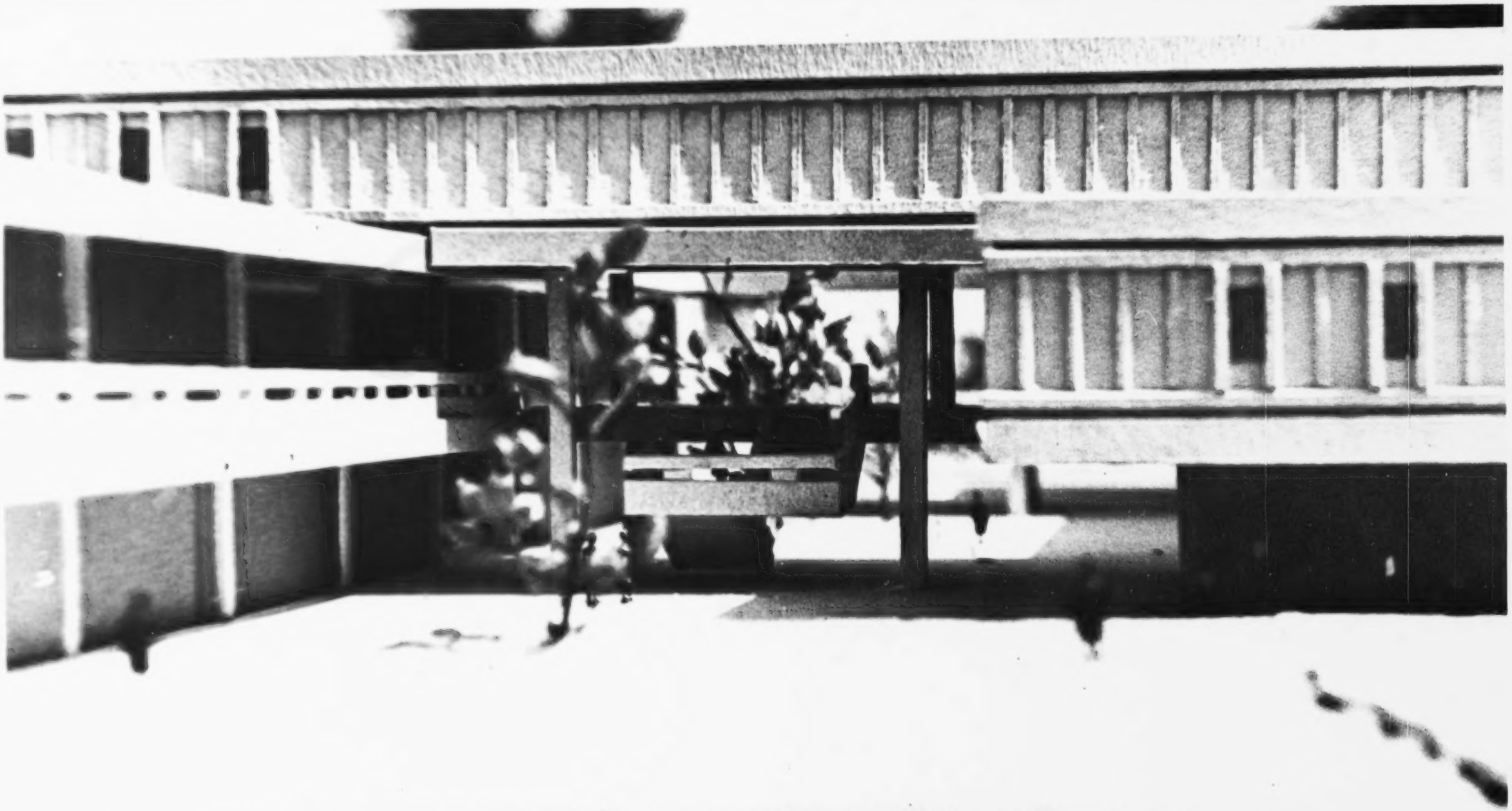


VIEW FROM NORTHWEST



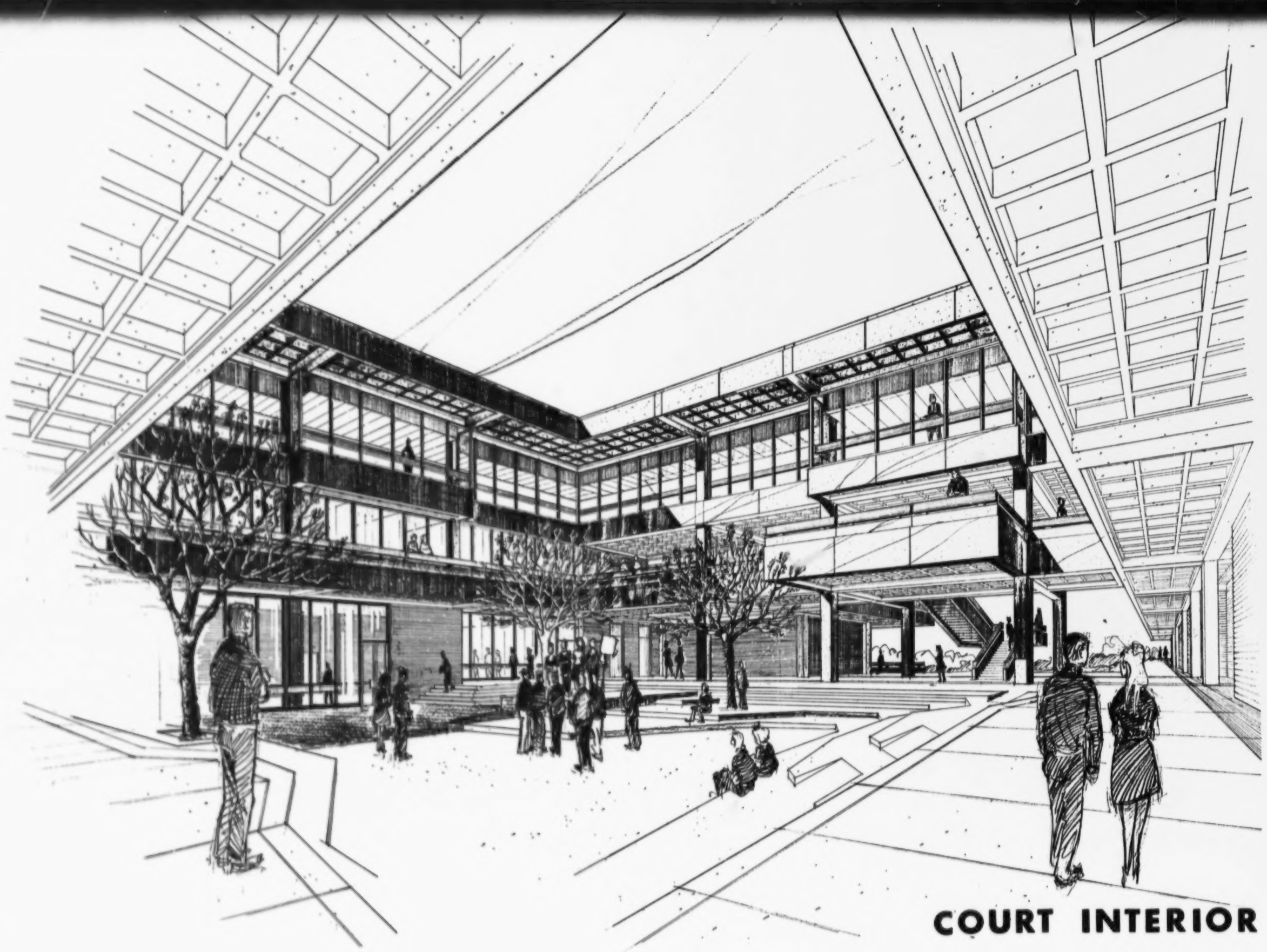
VIEW FROM SOUTHWEST

plate XVI



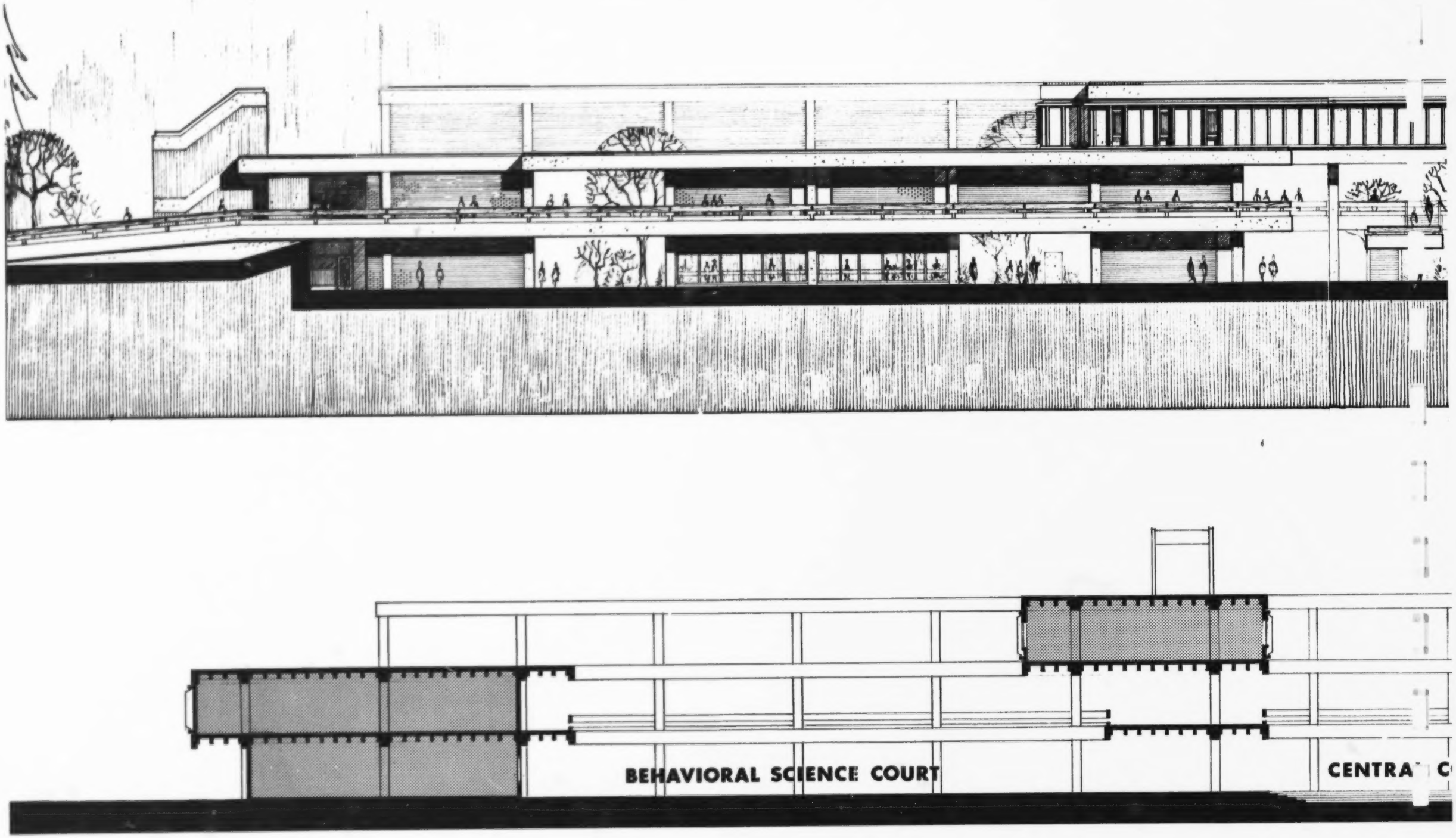
COURT VIEW

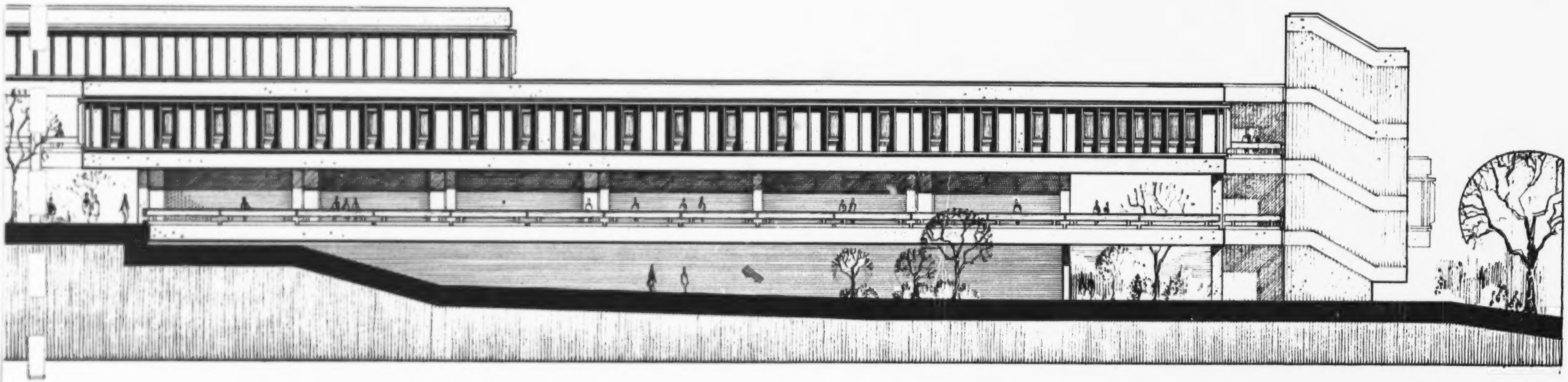
plate XVII



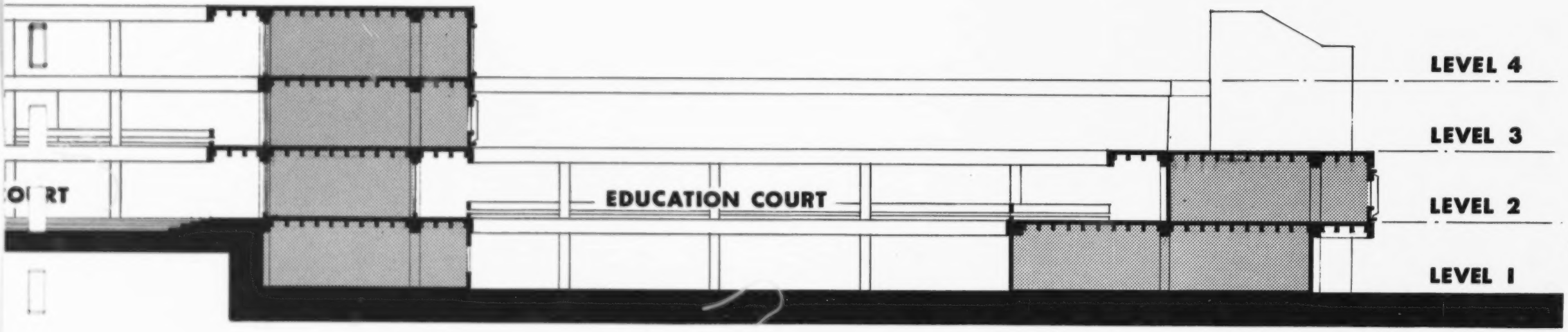
COURT INTERIOR

plate XVIII


BEHAVIORAL SCIENCE COURT
CENTRA

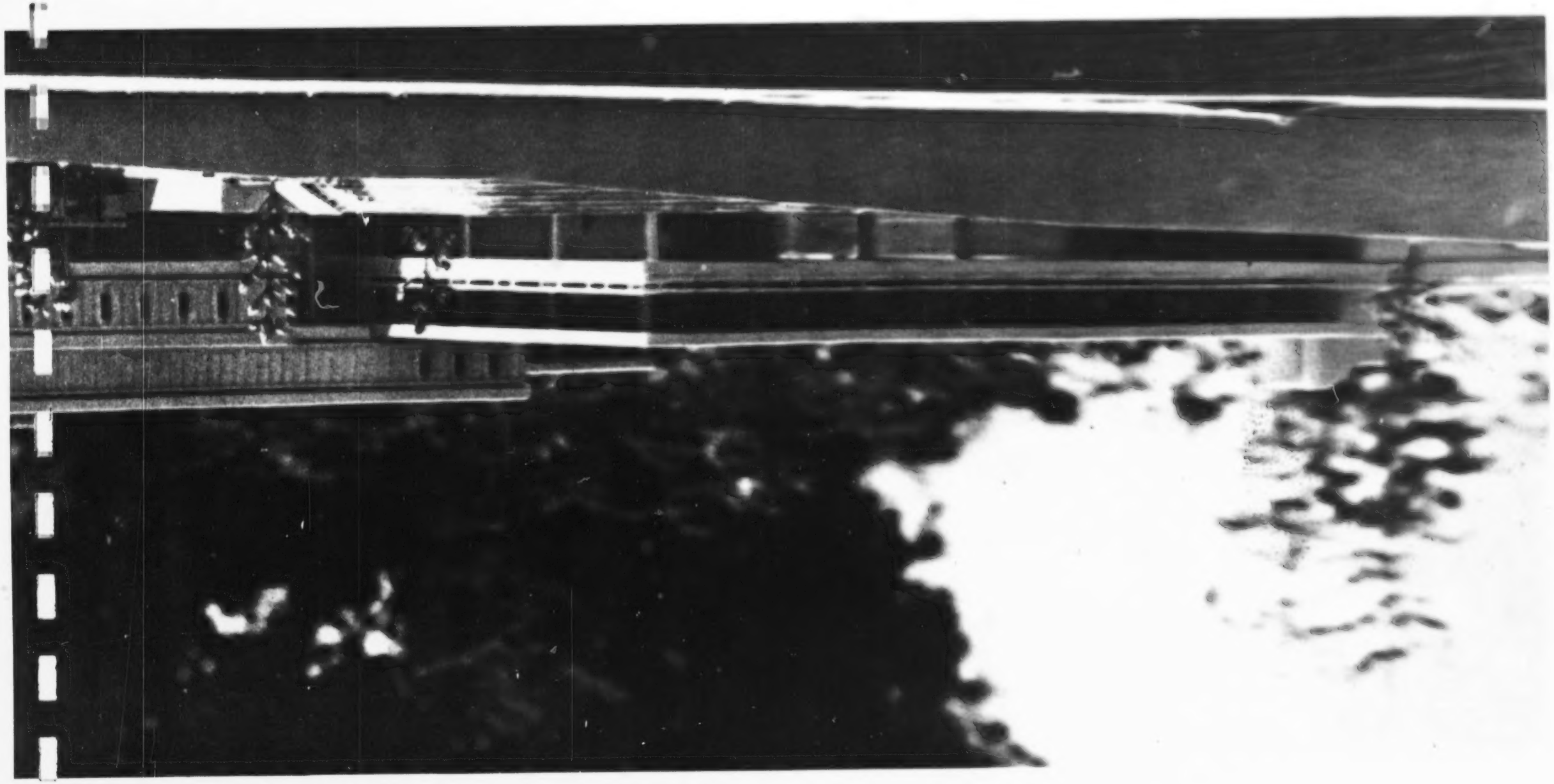


NORTH ELEVATION



SECTION

plate XIX



VIEW FROM NORTH

plate XX

OUTLINE SPECIFICATIONS

OUTLINE SPECIFICATIONS

GENERAL

Applicable Codes:

Uniform Building Code, 1967. Pacific Coast Edition
Type I Construction

SITEWORK

Walls and Courts
- Plain and exposed aggregate concrete
- Masonry Pavers
- Temporary Asphalt

Roads and Service Drives
- Concrete curbs
- Asphalt paving

Landscaping
- New and relocated trees
- Lawns and ground cover
- Plants and shrubs

Preschool Play Area
- Resilient surfacing.

FOUNDATIONS AND UNDERGROUND STRUCTURES

Foundations
- Excavation to rock bearing
- Poured-in-place concrete

Utility Tunnels
- Poured-in-place concrete

STRUCTURAL SYSTEM

Lateral Force resisting Frame
30' x 30' structural module with optional
10' cantilever
Steel columns encased in concrete
Cast-in-place pan slab floor and roof.
Cast-in-place stairways and elevator shafts.

EXTERIOR MATERIAL SYSTEMS AND FINISHES

Walls

8" clay block or brick
Lightweight pre-stressed concrete panels.
Wall insulation
Anodized aluminum window frames.
Glare reducing glass

Doors

Hollow metal prefinished.
Hollow metal frames
Glare reducing glass

Window Walls

Hollow metal frames
Glare reducing glass

Ceilings

Exposed concrete waffle slab

ROOFING SYSTEMS

Flat Roofs

Built-up Class "A" 20 year bond roofing
Mineral surface cap sheet
Insulating fill
Enameled steel flashing

Lecture Hall Roof

20 gage weathering steel

INTERIOR MATERIAL SYSTEMS AND FINISHES

Basic Wall Systems

Metal studs
Batt Acoustic insulation
Gypsum board surfaces
Thin coat plaster
Enamel, vinyl or wood paneling finishes.
Sound Transmission loss to match work task
Type 1 - 35-40 db
Type 2 - 40-45 db
Type 3 - 45-50 db
Type 4 - Over 50 db

Ceiling Systems

Corridors

Accessible acoustical tile

Classrooms

Gypsum board
Acoustical tile

Laboratories

Gypsum board
Acoustical tile

Sound Transmission loss to match work task
Type 1 - STC 40, NRC 0.65
Type 2 - STC 45, NRC 0.60
Type 3 - STC 50, NRC 0.60

Special Finishes

Teaching Auditorium

Acoustical wall finishes
Acoustical ceiling finishes

Computer Rooms
Pedestal Floors
Sound absorbent walls and ceilings

Toilet Rooms
Ceramic Tile Floors
Ceramic Tile Walls

Floor Finishes
Classrooms, Offices, Laboratories
Vinyl Asbestos Tile
Carpet

Test Room corridors
Carpet

Animal Labs and Colonies
Seamless Floor Covering

Doors

Sound Transmission loss to match work task
Type 1 - 28 to 32 db.
Solid core wood hardwood face
Hollow metal frames
Resilient faces stops
Automatic threshold
½ plate glass relites

Type 2 - 33 to 37 db
1-3/4" sound retardant door
Hollow metal frame, filled.
Resilient faced adjustable stops
Automatic threshold
Acoustically treated glass relites

Type 3 - 38 to 42 db
1-3/4" -2 1/4" sound retardant door
Hollow metal frame, filled
Resilient faced adjustable stops

Automatic threshold
Acoustically treated glass relites

Glass and Glazing

Gray plate or heavy sheet
One way vision panels in observation ports

SPECIAL CONSTRUCTION

Anechoic chamber
Isolated sound rooms
Walk-in freezer
Electrically shielded and grounded rooms

FURNISHINGS AND EQUIPMENT

Chalk and tack board
Toilet stalls
Bulletin boards
Directional and identification signs
Package kitchen unit
Tablet arm lecture room seats
Wood cabinets, plastic laminate tops
Carpet
Science cabinets

CONVEYING SYSTEMS

One Service Elevator
Cable lift
5000# at 150 F.P.M.
Platform 5'-10" x 9'-0"

One Passenger - Service Elevator
Hydraulic lift
2500# at 150 F.P.M.
Platform 7'-0" x 6'0"

One Passenger Elevator
Cable lift
2500# at 200 F.P.M.
Platform 7'-0" x 5'-6"

ELECTRIC SERVICE

Main service from utility tunnel
Primary voltage 4150 volts
Dry transformer conversion
Building distribution voltage 277/480 volts
Service voltage 120/208 volts
Service capacity 15 volt-amperes per square foot of gross building area.

LIGHTING SYSTEM

General Flourescent illumination
100 foot candles maintained
Incandescent special purpose illumination
Mercury vapor exterior lighting

EMERGENCY POWER

Separate emergency lighting circuits
Standby motor-operator with automatic transfer switch for critical laboratory loads and emergency lighting.

TELEPHONE SYSTEM

Main service from utility tunnel
Terminal locations in electric rooms
Conduit runs from terminal to terminal
Conduit runs from outlets to terminals
Installation of circuits by telephone utility.

INTERCOMMUNICATION SYSTEM

Conduit runs from outlet to outlet
Installation of circuits by University

PUBLIC ADDRESS SYSTEMS

Conduit runs from outlet to outlet
Installation of circuits by University
Auditorium system installed

TELEVISION SYSTEM

Conduit runs from outlet to outlet
Installation of circuits by University

CLOCK AND PROGRAM SYSTEM

Main service from Utility tunnel
Intertie relay, secondary clocks program signals and tie in provided

FIRE ALARM SYSTEM

Main service from Utility tunnel
Tied in with City of Eugene system
Reporting stations, alarms, heat deflectors
Separate smoke detectors will close all interior and fire doors.

OFF-SITE UTILITIES

Steam

Available in utility tunnel
8" low pressure (15 P.S.I.)
4" high pressure (50 P.S.I.)
3" Pumped condensate return

Chilled Water

Available in utility tunnel
10" supply
10" return

Domestic Water and Fire Protection

10" city water main in Alder Street
8" reducing to 6" on two sides of building
Fire hydrants available
Eugene Water and Electric Board Service

Sanitary Sewer

8" sewer available on site inadequate
12" sewer to 19th and Hilyard to be constructed
City of Eugene Service

Air

Available in Utility tunnel
Piped to selected locations

Storm Sewer

18" line available in Alder Street
City of Eugene Service

Gas

Service line available in Alder Street
Line to building and meter by Utility Company
Northwest Natural Gas Service

BUILDING UTILITY DISTRIBUTION SYSTEM

Vertical distribution through utility shafts
Horizontal distribution through suspended ceilings

HEATING, VENTILATING AND AIR CONDITIONING

Distribution System

All areas air conditioned
Distribution by low and medium high velocity (3800 FPM) dual duct system, ceiling diffusers.
Terminal mixing boxes for large rooms or groups of small rooms.

Animal rooms, laboratories, central prep rooms, surgery, histology, rat colony, toilet rooms exhausted with individual fans and ducts.
Minimum 6 air change per hour.

Cooling System

Outside air introduced to maintain mixed air temperature of 55°.
Cooling above 55° by central chilled water system.
Cooling load 855 tons for 175,281 sq. ft.

Filters

Roll type fiberglas filters

Temperature Control

Automatic by pneumatic system
Air from central plant

Heating

Steam converted to closed hot water building system.
Radiant heat floor slab in cantilever areas.

PLUMBING FIXTURES

Water closets - wall hung, flush valve, china.
Urinals - wall hung, flush valve, china.
Lavatories - wall hung, single handle faucets, cast iron.
Service Sinks - floor mount, terrazzo
Laboratory sinks - epoxy resin (Durcon)
Floor drains - cast iron, nickel - bronze. Strainers.
All rooms provided with a flushing type floor drain for cleanup.
Fittings, faucets, stop valves, etc. - chromeplated brass.

PIPING

Waste - extra heavy cast iron or galvanized steel in accordance with National Plumbing Code.

Chemical waste - High silicon iron, glass or plastic
(polyethylene or polypropoaline).
Water piping - 4" and larger - cast iron.
-3" and smaller - type "L" copper.
Gas piping - black iron schedule 40.
Air piping - black iron schedule 40.

DISTILLED WATER

Localized distilling units sized for service load.
Piping - plastic schedule 40 polyvinyl chloride.

FIRE SPRINKLER SYSTEM

Entire building sprinklered in accordance with
National Fire Protection Association Pamphlet
#13 and Oregon Insurance Rating Bureau.

APPENDICES

AREA COMPARISONS

	PROGRAM		DEVELOPMENT CONCEPT			DESIGN DEVELOPMENT		
	Net	Gross	Net	Encl. Gr.	Total Gross	Net	Encl. Gross	Total Gross
Education	48,900	83,250	51,615	74,827	84,555	51,230	77,106	90,606 *
Behavorial Science	63,128	104,000	63,577	97,410	103,094	66,088	98,175	109,757

* Includes ½ of covered area between buildings

Appendix 1

AREA RECAPITULATION

COLLEGE OF EDUCATION ADDITION - UNIVERSITY OF OREGON

	448 LEVEL Part A			448 LEVEL Part B			462 LEVEL Part C			462 LEVEL Part D			476 LEVEL Part E			476 LEVEL Part F			TOTAL		
	rms	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	Net Area	stn
Offices Staff	(2)	200	(2)	(3)	449	(4)	(10)	1,456	(10)	(2)	200	(2)	(17)	1,714	(17)	(83)	8,508	(84)	(117)	12,527	(119)
Gen'l				(1)	75	(1)	(7)	1,863	(18)				(2)	1,121	(14)	(3)	1,490	(20)	(13)	4,549	(53)
Teach. Assist.				(9)	1,594	(27)				(1)	297	(3)				(14)	3,936	(54)	(24)	5,827	(84)
Classrooms				(2)	1,568	(100)				(6)	6,229	(546)							(8)	7,797	(646)
Laboratories										(2)	1,108	(40)							(2)	1,108	(40)
Conf. rms.	(2)	504		(1)	296		(1)	368								(1)	290		(5)	1,458	
Recpt. & Waiting	(1)	99					(2)	416		(1)	120		(2)	360		(2)	152		(8)	1,147	
Special Purpose	(15)	2,423		(17)	4,259		(1)	84		(28)	5,894					(5)	1,424		(66)	14,094	
Work rms.	(1)	122					(1)	638					(1)	95		(3)	403		(6)	1,258	
Storage	(4)	520		(6)	931		(1)	14											(11)	1,465	
NET ASSIGNABLE TOTAL		3,878			9,172			4,839			13,848			3,290			16,203			51,230	
GROSS AREA		7,295			13,708			7,884			18,493			6,156			23,570			77,106	

G.R. Wallmann, Architect
June 8, 1969

AREA RECAPITULATION
BEHAVIORAL SCIENCES BUILDING - UNIVERSITY OF OREGON

	462 LEVEL Unit G			476 LEVEL Unit H			476 LEVEL Unit I			476 LEVEL Unit J			490 LEVEL Unit K			490 LEVEL Unit L			TOTAL		
	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn	rm	AREA	stn
Staff Off.				(9)	963	(9)	(13)	1,505	(13)	(4)	465	(4)	(5)	510	(5)	(24)	2,507	(25)	(55)	5,950	(56)
Office-Lab.										(15)	2,859	(15)							(15)	2,859	(15)
Gen. Of.	(1)	182	(2)	(1)	140	(2)	(4)	791	(11)	(2)	338	(5)				(2)	704	(8)	(10)	2,155	(28)
Tech'g Ast.	(3)	478	(7)				(7)	852	(15)							(2)	194	(4)	(12)	1,524	(26)
Classroom	(7)	4,290	(347)				(1)	784	(60)										(9)	5,074	(407)
Laboratory	(3)	3,813	(105)	(1)	473	(15)				(4)	5,348	(65)							(8)	9,634	(185)
Conf. rm.				(1)	237		(2)	848		(1)	289					(1)	302		(5)	1,676	
Spec. Fur.	(3)	1,452					(1)	95		(3)	2,070								(7)	3,617	
Recept.-Waiting																(1)	131		(1)	131	
Work rms.							(1)	182		(1)	141								(2)	323	
Storage	(1)	178		(2)	231		(4)	250					(2)	169		(4)	416		(11)	1,244	
Res: Lab.				(16)	2,577					(8)	1,342		(51)	5,832		(62)	6,033		(137)	15,784	
Res: Spec. Fur.	(9)	2,462		(40)	4,427		(44)	5,980					(14)	1,253		(1)	306		(108)	14,428	
Clinic: Spec. Purpose							(13)	1,689											(13)	1,689	
TOTAL NET ASSIGNABLE		12,855			9,048			12,976			12,852			7,764			10,593			66,088	
TOTAL GROSS		18,192			14,740			19,922			17,132			11,202			16,987			98,175	

G. R. Wallmann, Architect
June 10, 1969 2

BUDGET

DESIGN DEVELOPMENT PHASE
COLLEGE OF EDUCATION ADDITION
UNIVERSITY OF OREGON

	Schematic Design 12/18/68	Design Development 6/9/69
Direct Construction	2,300,000	2,325,000
Contingency 5%	115,000	116,250
Architects' Fee 6.5%	152,950	151,125
Moving Tennis Courts	50,000	50,000
Landscaping	25,000	w/dir. const.
Special Equipment	90,000	90,000
Movable Equipment	150,000	150,000
Res. Inspection	21,000	21,000
Physical Plant Costs	11,050	11,625
	2,915,000	2,915,000

Source of Funds: State Funds

G. R. Wallmann, Architect
University of Oregon
June 10, 1969

Appendix 4

DESIGN DEVELOPMENT PHASE BEHAVORIAL SCIENCES BUILDING
UNIVERSITY OF OREGON

	Schematic Design 12/16/68		Design Development 6/9/69
Direct Construction	2,980,000		2,996,000
Contingency 5%	149,000		149,800
Architects' Fee	208,700	(1)	218,240
Movable Equipment	360,000		360,000
Landscaping	26,000		w/direct const.
Res. Inspection	21,000		21,000
Physical Plant Costs	20,300		19,960
	3,765,000		3,765,000

SOURCE OF FUNDS: State Funds

G. R. Wallmann, Architect
University of Oregon
June 10, 1969

Appendix 5